RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

HINDI

PAPER – II

खंड–प्रथमः उच्च माध्यमिक स्तर

- **वर्ण व्यवस्था**
    - स्वर व व्यंजनों का वर्गीकरण
    - कोश–क्रम
- **शब्द–वर्गीकरण (स्रोत के आधार पर)**
    - तत्सम
    - तद्भव
    - विदेशी
- **शब्द–वर्गीकरण (व्याकरण के आधार पर)**
    - संज्ञा, सर्वनाम, विशेषण, क्रिया व इन सभी के भेद
    - क्रियाविशेषण व भेद
- **व्याकरणिक कोटियाँ**
    - लिंग
    - वचन
    - कारक
    - काल
- **शब्द– रचना**
    - संधि (स्वर व व्यंजन) एवं भेद
    - समास व भेद
    - उपसर्ग
    - प्रत्यय व भेद
- **शब्द– ज्ञान**
    - पर्यायवाची शब्द
    - विलोम शब्द
    - अनेकार्थी शब्द
    - समश्रुत भिन्नार्थक शब्द
    - वाक्यांश के लिए एक शब्द
- **वाक्य रचना**
    - वाक्य के अंग
    - वाक्य के भेद– उपभेद
- **शब्द शुद्धीकरण**
- **वाक्य शुद्धीकरण**
- **मुहावरे एवं लोकोक्तियाँ**
    - अर्थ एवं प्रयोग

खंड–द्वितीयः स्नातक स्तर

- **शब्द शक्तियाँ, काव्य–गुण**
  - भेद व उदाहरण
- **काव्य–दोष**
  - श्रुतिकटुत्व, अक्रमत्व, दुष्क्रमत्व, ग्राम्यत्व, क्लिष्टत्व, अप्रतीतत्व
- **अलंकार**
  - यमक, श्लेष, उपमा, रूपक, उत्प्रेक्षा, संदेह, भ्रान्तिमान, विभावना, असंगति, विरोधाभास, अतिशयोक्ति, अपह्नुति
- **छंद**
  - द्रुतविलम्बित, हरिगीतिका, दोहा, सोरठा, कुण्डलिया, चौपाई, छप्पय, मन्दाक्रान्ता, मत्तगयन्द सवैया, मनहरण कवित्त
- **रस**
  - रस का स्वरूप
  - रसावयव
  - रस– भेद
- **हिन्दी साहित्य का इतिहास**
  - इतिहास–लेखन की परम्परा
  - प्रमुख इतिहास–ग्रंथ एवं इतिहास–लेखक
  - हिन्दी साहित्य का आरम्भ, काल–विभाजन और नामकरण
- **आदिकाल**
  - रचनाओं की प्रामाणिकता
  - प्रमुख प्रवृत्तियाँ
  - प्रमुख रचनाकार एवं रचनाएँ
- **भक्तिकाल–**
  - भक्ति का उद्भव, विकास और दार्शनिक पृष्ठभूमि
  - संत काव्य– प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
  - सूफी काव्य– प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
  - राम भक्ति काव्य– प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
  - कृष्ण भक्ति काव्य– प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
- **रीतिकाल–**
  - रीतिबद्ध– प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
  - रीतिसिद्ध – प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
  - रीतिमुक्त– प्रमुख प्रवृत्तियाँ, कवि एवं रचनाएँ
- **आधुनिककाल**
  - नवजागरण,
  - हिंदी (खड़ी बोली) गद्य का उद्भव
  - भारतेंदुयुगीन गद्यकारों का योगदान
  - भारतेंदुयुगीन पत्रकारिता
- **गद्य की विविध विधाओं का विकास–**
  - नाटक, एकांकी, निबंध, कहानी, उपन्यास, आत्मकथा, जीवनी, यात्रावृत्तांत की प्रमुख प्रवृत्तियाँ, रचनाकार एवं रचनाओं का परिचय

- **पद्य का विकास–**
    - भारतेंदु युग, द्विवेदी युग, छायावाद, प्रगतिवाद, प्रयोगवाद, नयी कविता व समकालीन कविता की प्रमुख प्रवृत्तियाँ, कवि एवं रचनाओं का परिचय

खंड–तृतीयः स्नातकोत्तर स्तर

- **काव्यशास्त्र**
    - काव्य– हेतु,
    - काव्य– लक्षण
    - काव्य– प्रयोजन
- **रसनिष्पत्ति, साधारणीकरण,**
- **ध्वनि सिद्धान्त,**
- **वक्रोक्ति सिद्धान्त**
- **अरस्तू**
    - अनुकरण सिद्धान्त, त्रासदी
- **लोंजाइनस**
    - उदात्ततत्त्व
- **हिंदी भाषा**
    - उद्भव और विकास
    - बोलियाँ
    - राजस्थानी की प्रमुख बोलियाँ
    - राजभाषा
    - देवनागरी लिपि का मानक स्वरूप
- **निर्धारित पाठ**
- **कबीर ग्रंथावली** – सं0 श्यामसुंदरदास
  साखी – प्रारम्भिक 05 अंग
  पद– प्रारम्भिक 10 पद
- **जायसी ग्रन्थावली–** सं. आचार्य रामचंद्र शुक्ल
  नागमती वियोग खण्ड
- **रामचरित मानस**– तुलसीदास, गीता प्रेस, गोरखपुर
  बालकांड
- **भ्रमरगीतसार** – सूरदास– सं आचार्य रामचन्द्र शुक्ल
  पद– प्रारम्भिक 20 पद
- **बिहारी रत्नाकर** – सं0 जगन्नाथदास 'रत्नाकर'
  दोहे – प्रारम्भिक 25 दोहे
- **घनानन्द कवित्त**– घनानन्द सं. आ. विश्वनाथप्रसाद मिश्र
  (प्रथम शतक) प्रारम्भिक 10 छन्द
- **साकेत** – मैथिलीशरण गुप्त
  नवम सर्ग
- **राम की शक्तिपूजा**–सूर्यकान्त त्रिपाठी निराला
- **आपका बंटी** – मन्नू भण्डारी
- **कहानियाँ**
  कफन– प्रेमचन्द
  पुरस्कार– जयशंकर प्रसाद

गैंग्रीन / रोज – अज्ञेय
गदल – रांगेय राघव

- **चन्द्रगुप्त** – जयशंकर प्रसाद

खंड–चतुर्थ (शिक्षण–शास्त्र, शिक्षण– अधिगम सामग्री, शिक्षण–अधिगम में संगणक एवं सूचना प्रौद्योगिकी का प्रयोग)

- **शिक्षण शास्त्र एवं शिक्षण अधिगम सामग्री (किशोर अधिगमकर्त्ता हेतु अनुदेशनात्मक रणनीतियाँ)**
  - संप्रेषण कौशल एवं विविध शाब्दिक एवं अशाब्दिक कक्षा–कक्ष संप्रेषण रणनीतियों का प्रयोग / उपयोग
  - शिक्षण प्रतिमान– अग्रिम संगठक प्रतिमान एवं पृच्छा प्रशिक्षण प्रतिमान (सूचना प्रसंस्करण), सामूहिक अन्वेषण (सामाजिक अंतः क्रिया) गैर निर्देशात्मक प्रतिमान (व्यक्तिगत विकास)
  - शिक्षण के दौरान शिक्षण–अधिगम सामग्री का निर्माण एवं प्रयोग
  - सहकारी अधिगम

- **शिक्षण अधिगम में संगणक एवं सूचना प्रौद्योगिकी का उपयोग**
  - आई.सी. टी. (सूचना एवं संचार प्रौद्योगिकी) का संप्रत्यय एवं डिजिटल अधिगम
  - ई– अधिगम एवं वर्चुअल (आभासी) कक्षा–कक्ष
  - शिक्षण–अधिगम एवं आकलन में प्रौद्योगिकी का एकीकरण

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For the competitive examination for the post of **School Lecturer: -**
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1. Duration of question paper will be **Three Hours**.
2. The question paper will carry **150 questions** of multiple choices.
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4. Paper shall include following subjects: -
   (i) Knowledge of Subject Concerned: Senior Secondary Level
   (ii) Knowledge of Subject Concerned: Graduation Level.
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   (iv) Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.

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ENGLISH

PAPER – II

Part – I Senior Secondary Level
Grammer and Usage

1. Use of Articles and Determiners
2. Tenses
3. Conditional Sentences
4. Use of Prepositions
5. Modal Auxiliaries
6. Subordination and Coordination (Compound and Complex Sentences)
7. Transformation of Sentences
    i. Affirmative, Negative, Interrogative and Imperative Sentences
    ii. Active and Passive Voice
    iii. Direct and Indirect Speech
8. Phrasal Verbs
9. Proverbs/Idiomatic Expressions
10. Phonetic Transcription and Word Stress
11. One Word Substitution
12. Synonyms and Antonyms
13. Subject Verb Agreement/Concord
14. Basic Sentence Patterns
15. Clause/Phrase Analysis (in terms of SVOCA)
16. Reading Comprehension and Vocabulary

Part – II Graduation Level

An Acquaintance with English, American and Indian Authors Poetry

1. William Shakespeare.: Shall I Compare Thee to a Summer's Day (Sonnet 130)
2. John Milton: *Paradise Lost*- Book 1 (Lines 1-124 "Of Mans First Disobedience … Tyranny of Heav'n")
3. John Donne: Batter My Heart
4. Andrew Marwell: To His Coy Mistress
5. John Dryden: Alexander's Feast
6. Thomas Gray: Elegy Written in a Country Churchyard
7. William Wordsworth: Lines Written a Few Miles Above Tintern Abbey on Revisiting the Banks of the Wye During a Tour, July 13, 1798

8. John Keats: Ode to a Nightingale
9. Robert Browning: Andrea Del Sarto
10. Matthew Arnold: Dover Beach
11. T. S. Eliot: The Hollow Men
12. W.B. Yeats: Sailing to Byzantium
13. Walt Whitman: Crossing Brooklyn Ferry
14. Robert Frost: After Apple Picking
15. Emily Dickinson: Because I Could not Stop for Death; I Heard a Fly Buzz
16. Rabindra Nath Tagore: Where the Mind is Without Fear
17. Sri Aurobindo: The Pilgrim of Night
18. Nissim Ezekiel: Goodbye Party for Miss Pushpa T.S
19. Toru Dutt: Lakshman
20. Vikram Seth: The Tale of Melon City
21. Syed Amanuddin: Don't Call me Indo-Anglian

Prose

1. Bacon: Of Truth;
2. Richard Steele: Spectator Club
3. Charles Lamb: Modern Gallantry
4. M.K. Gandhi: "What is Swaraj" (Chapter 4 from *Hind Swaraj*)
5. Robert Louis Stevenson: On Walking Tours
6. T.S. Eliot: Tradition and the Individual Talent

Novel

1. Charles Dickens: *David Copperfield*
2. Shashi Deshpande: That Long Silence

Drama

1. William Shakespeare: *As You Like It*
2. Girish Karnad: *Tughlaq*

Part – III Post Graduation Level

A. An Acquaintance with Literary Terms/ Forms/Techniques-

1. Simile
2. Metaphor
3. Personification
4. Hyperbole
5. Alliteration
6. Onomatopoeia
7. Sonnet
8. Ode
9. Elegy
10. Ballad
11. Soliloquy
12. Dramatic Monologue

13. Epic / Mock Epic
14. Allegory
15. Paradox

B. An Acquaintance with Major Literary Periods

1. Renaissance
2. Metaphysical
3. Jacobean
4. Neoclassical
5. Romantic
6. Victorian
7. Modern
8. Post-modern

C. An Acquaintance with Major Literary Movements

1. Romanticism
2. Gothic
3. Pre-Raphaelite Movement
4. Realism
5. Existentialism

D. Varieties of Language

1. Dialect
2. Register
3. Creole
4. Pidgin
5. Code-Switching
6. Code-Mixing

Part – IV (Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning)

I. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

- Communication skills and use of various verbal and non verbal classroom communication strategies.
- Teaching models- advance organizer and inquiry training (information processing) Group Investigation (Social Interaction) Non-Directive model (Personal development.
- Preparation and use of teaching-learning material during teaching.
- Cooperative learning.

II. Use of Computers and Information Technology in Teaching Learning

- Concept of ICT and Digital learning
- E-learning and Virtual Classroom.
- Technology integration in teaching-learning and assessment

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SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

PAPER-II

संस्कृतम्

खण्ड-1 उच्चमाध्यमिकस्तर:

1. संज्ञाप्रकरणम् (लघुसिद्धान्तकौमुदी) -

माहेश्वरसूत्राणि, इत्, लोपः, प्रत्याहारसंज्ञा, स्वरभेदाः, सवर्णम्, संयोगः, संहिता, प्रयत्नः (आभ्यन्तरः बाह्यश्च), उच्चारणस्थानानि, पदम्॥

2. निम्नलिखित-सन्धिसूत्रानुसारं सन्धिः सन्धिविच्छेदश्च –

- **अच्-सन्धिः**– इको यणचि, एचोऽयायावः, लोपः शाकल्यस्य, आद्गुणः, ऊरण् रपरः, वृद्धिरेचि, एङि पररूपम्, शकन्ध्वादिषु पररूपं वाच्यम्, अकः सवर्णे दीर्घः, एङः पदान्तादति, ईदूदेद् द्विवचनं प्रगृह्यम्, अदसो मात्॥
- **हल्-सन्धिः**- स्तोः श्चुना श्चुः, ष्टुना ष्टुः, झलां जशोऽन्ते, यरोऽनुनासिकेऽनुनासिको वा, तोर्लि, खरि च, झयो होऽन्यतरस्याम्, शश्छोऽटि, मोऽनुस्वारः, नश्चाऽपदान्तस्य झलि, मोऽनुस्वारः, अनुस्वारस्य ययि परसवर्णः, ङमो ह्रस्वादचि ङमुण् नित्यम्, छे च।
- **विसर्ग-सन्धिः**- विसर्जनीयस्य सः, खरवसानयोर्विसर्जनीयः, ससजुषो रुः, अतो रोरप्लुतादप्लुते, हशि च, भो भगो अघो अपूर्वस्य योऽशि, हलि सर्वेषाम्, रो रि, ढ्रलोपे पूर्वस्य दीर्घोऽणः, एतत्तदोः सुलोपोऽकोरनञ्समासे हलि॥

3. अव्ययपद-सम्बन्धि-प्रश्नाः –

पुनः, उच्चैः, नीचैः, अधः, उपरि, अद्य, ह्यः, श्वः, यथा, तथा, चिरम्, तूष्णीम्, सहसा, मिथ्या, पुरा, खलु, किल, धिक्, विना, सह, अन्तरा, मा, हि, एव, अपि।

4. शब्द-रूपाणि –

राम, हरि, पति, गुरु, पितृ, गो, भूभृत्, गच्छत्, आत्मन्, राजन्, भवत्। लता, मति, नदी, धेनु, वधू, मातृ सरित्, वाच्। फल, वारि, दधि, मधु, कर्मन्, जगत्, मनस्। अस्मद्, युष्मद्। सर्व, तत्, इदम्, अदस् (त्रिषु लिङ्गेषु)।

5. **पञ्चलकारेषु धातुरूपाणि (लट्, लृट्, लोट्, लङ्, विधिलिङ्) -**

परस्मैपदी - भू, नम्, गम्, पच्, नी, दृश्, स्था, पा, प्रच्छ्, लिख्, अस्, हन्, दा, नृत्, क्रुध्, शक्, श्रु, क्री, ज्ञा, चुर्।

आत्मनेपदी - लभ्, सेव्, रुच्।

उभयपदी - कृ, याच्, चिन्त्।

6. प्रत्ययाधारिताः प्रश्नाः -

तव्यत्, अनीयर्, यत्, ण्यत्, क्यप्, ण्वुल्, तृच्, क, णिनि, क्त, क्तवतु, शतृ, शानच्, तुमुन्, क्त्वा, ल्यप्, ल्युट्, घञ्, क्तिन्, अच्, मयट्, इन्, मतुप्, वतुप्, त्व, तल्, ष्यञ्, तरप्, तमप्, ईयसुन्, इष्ठन्, इमनिच्, इतच्, तसिल्, टाप्, ङीप्, ङीष्, ङीन्, ति॥

7. उपसर्ग-सम्बन्धि-सामान्यप्रश्नाः -

प्र, परा, अप, सम्, अनु, दुर्, दुस्, वि, आङ्, अति, सु, प्रति, परि, उप, निर्, निस्, अधि॥

खण्ड-॥ स्नातकस्तरः

1. **छन्दसां लक्षणोदाहरण-सम्बन्धिसामान्यप्रश्नाः -**

आर्या, अनुष्टुप्, इन्द्रवज्रा, उपेन्द्रवज्रा, उपजातिः, वंशस्थम्, द्रुतविलम्बितम्, भुजङ्गप्रयातम्, रथोद्धता, शालिनी, वसन्ततिलका, मालिनी, मन्दाक्रान्ता, शिखरिणी, हरिणी, शार्दूलविक्रीडितम्, स्रग्धरा, वियोगिनी, पुष्पिताग्रा॥

2. **अलंकाराणां लक्षणोदाहरण–सम्बन्धिसामान्यप्रश्नाः -**

अनुप्रासः, यमकम्, श्लेषः, स्वभावोक्तिः, उपमा, अनन्वयः, रूपकम्, उत्प्रेक्षा, व्यतिरेकः सन्देहः, भ्रान्तिमान्, निदर्शना, दृष्टान्तः, अर्थान्तरन्यासः, दीपकम्, तुल्ययोगिता, समासोक्तिः, अतिशयोक्तिः, अपह्नुतिः, विभावना, विशेषोक्तिः, वक्रोक्तिः॥

3. **समासानां सामान्यपरिचयः, समस्तपदानां समासः समासविग्रहश्च -**

अव्ययीभावः, तत्पुरुषः, कर्मधारयः, द्विगुः, द्वन्द्वः, बहुव्रीहिः ॥

4. **हिन्दीवाक्यानां संस्कृतानुवादः। (कारकविभक्त्याधारेण)**

5. **कारक-प्रत्यय-समासाधारितवाक्यानाम् अशुद्धिसंशोधनम्।**

6. **वैदिकसाहित्यसम्बन्धि-सामान्यप्रश्नाः**

ऋग्वेदः - अग्निसूक्तम् (1.1), वरुणसूक्तम् (1.25), विष्णुसूक्तम् (1.154), पुरुषसूक्तम् (10.90), संज्ञानसूक्तम् (10.191)।

यजुर्वेदः - शिवसंकल्पसूक्तम् (अध्यायः 34)

अथर्ववेदः - पृथ्वीसूक्तम् (12.1)

कठोपनिषद् - प्रथमोऽध्यायः (प्रथमवल्ली)

7. **निम्नलिखितग्रन्थानां सामान्याध्ययनम्** -

श्रीमद्भगवद्गीता (द्वितीयोऽध्यायः), नीतिशतकम् (भर्तृहरिः), किरातार्जुनीयम् (भारविः) -प्रथमसर्गः, मेघदूतम् (कालिदासः), शुकनासोपदेशः (बाणभट्टः), अभिज्ञानशाकुन्तलम् (कालिदासः), स्वप्नवासवदत्तम् (भासः)॥

8. **संस्कृतसाहित्येतिहास-सम्बन्धि-परिचयात्मकप्रश्नाः** -

वैदिकसाहित्यम् - वेद-ब्राह्मण-आरण्यक-उपनिषदाम्, याज्ञवल्क्यस्मृतेः आचाराध्यायस्य च सामान्यपरिचयः।

लौकिकसाहित्यम्-

(क) वीरकाव्यम् – रामायणम् (वाल्मीकिः), महाभारतम् (वेदव्यासः)।

(ख) महाकाव्यकवयः - कालिदासः, अश्वघोषः, भारविः, माघः, श्रीहर्षः।

(ग) गद्यकाव्यकवयः - दण्डी, सुबन्धुः, बाणभट्टः, अम्बिकादत्तव्यासः।

(घ) दृश्यकाव्यकवयः – भासः, भवभूतिः, शूद्रकः, विशाखदत्तः।

9. राजस्थानीयाः अर्वाचीनकवयः तेषां रचनाश्च -

भट्टमथुरानाथशास्त्री, देवर्षिः कलानाथशास्त्री, पं. पद्मशास्त्री, डॉ. प्रभाकरशास्त्री, प्रो. हरिरामः आचार्यः, डॉ. शिवसागरत्रिपाठी, पं. मोहनलालपाण्डेयः।

खण्ड-॥। स्नातकोत्तर-स्तरः

1. **सिद्धान्तकौमुदी (कारकप्रकरणम्) - सूत्राणां सामान्यपरिचयात्मकप्रश्नाः वाक्यप्रयोगश्च** – प्रातिपदिकार्थ-लिङ्ग-परिमाण-वचनमात्रे प्रथमा। कर्तुरीप्सिततमं कर्म, कर्मणि द्वितीया, अधिशीङ्स्थासां कर्म, अकथितञ्च, उपान्वध्याङ् वसः, अभितः परितः समया निकषा हा-प्रतियोगेऽपि, अन्तराऽन्तरेण युक्ते, कालाध्वनोरत्यन्तसंयोगे। साधकतमं करणम्, कर्तृकरणयोस्तृतीया, प्रकृत्यादिभ्य उपसंख्यानम्, हेतौ, अपवर्गे तृतीया, येनाङ्गविकारः, सहयुक्तेऽप्रधाने, इत्थम्भूतलक्षणे। कर्मणा यमभिप्रैति स सम्प्रदानम्, चतुर्थी सम्प्रदाने,

स्पृहेरीप्सितः, रुच्यर्थानां प्रीयमाणः, धारेरुत्तमर्णः, क्रुधदुहेर्ष्यासूयार्थानां यं प्रति कोपः, कुधदुहोरुपसृष्टयोः कर्म, तादर्थ्ये चतुर्थी वाच्या, नमः स्वस्ति स्वाहा स्वधाऽलं वषड् योगाच्च। ध्रुवमपायेऽपादानम्, अपादाने पञ्चमी, जुगुप्साविरामप्रमादार्थानामुपसंख्यानम्, भीत्रार्थानां भयहेतुः, पराजेरसोढः, वारणार्थानामीप्सितः, अन्तर्धौ येनादर्शनमिच्छति, आख्यातोपयोगे, जनिकर्तुः प्रकृतिः, भुवः प्रभवः, पृथग्विनानानाभिस्तृतीयाऽन्यतरस्याम्। षष्ठी शेषे, षष्ठी हेतुप्रयोगे, सर्वनाम्नस्तृतीया च, अधीगर्थदयेषां कर्मणि, कर्तृकर्मणोः कृतिः, षष्ठी चानादरे, कृत्यानां कर्तरि वा। आधारोऽधिकरणम्, सप्तम्यधिकरणे च, साध्वसाधुप्रयोगे च, निमित्तात् कर्मयोगे, यतश्चनिर्धारणम्, यस्य च भावेन भावलक्षणम्॥

2. भाषाविज्ञानसम्बन्धिप्रश्नाः

भाषा-उत्पत्तेः प्रमुखसिद्धान्ताः, भाषाणां वर्गीकरणम्, अर्थपरिवर्तनस्य कारणानि, ध्वनिनियमाः, वैदिकसंस्कृत-लौकिकसंस्कृतयोः भेदः।

3. दर्शनग्रन्थानां परिचयात्मकाध्ययनम् –

सांख्यकारिका (ईश्वरकृष्णः)

तर्कभाषा (केशवमिश्रः) – प्रामाण्यवादपर्यन्तम्

वेदान्तसारः (सदानन्दः)

योगसूत्रम् (पतञ्जलिः) - समाधिपादः

चार्वाक-दर्शनम्।

4. **अलंकारशास्त्राणां सामान्याध्ययनम् -**

नाट्यशास्त्रम् (भरतमुनिः) – प्रथमद्वितीयाध्यायौ।

काव्यप्रकाशः (मम्मटः) – काव्यलक्षणम्, काव्यप्रयोजनम्, काव्यहेतुः, काव्यभेदः, शब्दशक्तिः, रसस्वरूपं रससूत्रविमर्शश्च, गुणविवेचनम्।

साहित्यदर्पणम् (विश्वनाथः) – प्रथम-परिच्छेदः, द्वितीय-परिच्छेदः, तृतीय-परिच्छेदस्य 1 तः 28 कारिकापर्यन्तम्।

ध्वन्यालोकः (आनन्दवर्धनः) – प्रथम उद्योतः।

खण्ड–IV (शिक्षणशास्त्रं, शिक्षण–अधिगम–सामग्री, शिक्षणाधिगमे संगणकस्य सूचनाप्रौद्योगिक्याः उपयोगः)

1. शिक्षणशास्त्रं तथा शिक्षण–अधिगमसामग्री (किशोराणां कृते अनुदेशनात्मक – व्यूहरचनाः)।

- सम्प्रेषणकौशलानि तथा विभिन्नानां मौखिक–अमौखिक–कक्षा–सम्प्रेषण – आव्यूहानाम् उपयोगः।
- शिक्षण–प्रतिमानानि–अग्रिमसंघटनम् (Advance Organizer), समूहान्वेषणम् (Social Interaction), पृच्छा–प्रशिक्षणम् (Inquiry Training), गैर–निर्देशात्मकम् (Personal Development)
- अध्यापनकाले शिक्षणाधिगमसामग्रीणां सज्जीकरणम् उपयोगः च।
- सहकारी अधिगमः।

2. शिक्षणाधिगमे संगणकस्य सूचना प्रौद्योगिक्याः च उपयोगः।

- सूचनाप्रौद्योगिकी तथा डिजिटल अधिगमस्य अवधारणाम्।
- ई–अधिगमम् आभासीकक्षाकक्षश्च।
- शिक्षणाधिगमे मूल्यांकने च प्रौद्योगिक्याः एकीकरणम्।

For the competitive examination for the post of **School Lecturer:-**

1. The question paper will carry maximum **300 marks.**
2. Duration of question paper will be **Three Hours**.
3. The question paper will carry **150 questions** of multiple choices.
4. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.
5. Paper shall include following subjects:-

(1) Knowledge of Subject Concerned: Senior Secondary Level

(ii) Knowledge of Subject Concerned: Graduation Level.

(iii) Knowledge of Subject Concerned: Post Graduation Level.

(iv) Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION) RAJASTHANI

PAPER-II

खण्ड–प्रथम (उच्च माध्यमिक स्तर)

1. राजस्थानी भाषा :–

- उद्भव एवं विकास
- राजस्थानी की विभिन्न बोलियाँ (मारवाड़ी, मेवाड़ी, हाड़ौती, बागड़ी, मालवी और मेवाती) का सामान्य परिचय
- राजस्थानी की पहचान के भाषा वैज्ञानिक तत्त्व
- प्रमुख लिपियाँः मुड़ियाँ एवं देवनागरी

2. राजस्थानी भाषा, व्याकरण एवं काव्य–दोष :–

- राजस्थानी वर्णमाला
- संज्ञा, सर्वनाम, क्रिया संरचना
- राजस्थानी भाषा की विशिष्ट ध्वनियाँ, शब्दों के परिवर्तित रूप एवं अर्थ भेद।
- पर्यायवाची शब्दः तलवार, घोड़ा, ऊँट, पानी, वीर, सूर्य, हाथी, कमल, बादल, भूमि।
- अलंकार : वैण–सगाई और उसके भेद
- छंद : दूहा छंद और उसके भेद
- काव्य दोष : अंधदोष, छबकाल, पांगलो, हीन और निनंग
- शब्द शक्तियाँ : अभिद्या, लक्षणा, व्यंजना।

खंड–द्वितीय (स्नातक स्तर)

3. राजस्थानी साहित्य का इतिहास :–

(i) **आदिकाल** : परिस्थितियाँ, साहित्यिक प्रवृत्तियाँ, प्रमुख रचनाकार एवं उनका सामान्य परिचय : वज्रसेन सूरि, श्रीधर व्यास, शारंगधर, शिवदास गाडण, नरपति नाल्ह।

(ii) **मध्यकाल** :–

(अ) पूर्वमध्यकाल : परिस्थितियाँ, साहित्यिक प्रवृत्तियाँ, प्रमुख रचनाकार एवं उनका सामान्य परिचयः ईसरदास, दुरसा आढ़ा, पृथ्वीराज राठौड़, हेमरतन सूरि, माधोदास दधवाड़िया, सायांजी झूला।

(ब) उत्तरमध्यकाल : परिस्थितियाँ, साहित्यिक प्रवृत्तियाँ, प्रमुख रचनाकार एवं उनका सामान्य परिचयः मीरांबाई, दादूदयाल, सुंदरदास, जांभोजी, जसनाथजी, रामचरणदास, सहजोबाई, गवरीबाई, किसना आढ़ा, मुहणोत नैणसी, नरहरिदास बारहठ, कृपाराम खिड़िया और बाँकीदास।

(iii) **आधुनिक काल** – परिस्थितियाँ, साहित्यिक प्रवृत्तियाँ, प्रमुख रचनाकार एवं उनका सामान्य परिचयः

(पद्य) : सूर्यमल्ल मीसण, रामनाथ कविया, शंकरदान सामौर, केसरीसिंह बारहठ, महाराज चतुरसिंह, गणेशीलाल व्यास 'उस्ताद', कन्हैयालाल सेठिया, चन्द्रसिंह 'बिरकाली', नारायणसिंह भाटी, सत्यप्रकाश जोशी, गिरधारी सिंह पड़िहार, चंद्रप्रकाश देवल एवं तेजसिंह जोधा।

(गद्य) : शिवचन्द्र भरतिया, मुरलीधर व्यास, सूर्यकरण पारीक, गिरधारीलाल शास्त्री, शिवराज छंगाणी, नेमनारायण जोशी, मनोहर शर्मा, नृसिंह राजपुरोहित साँवर दइया, यादवेन्द्र शर्मा 'चन्द्र', गोविन्दलाल माथुर, अन्नाराम सुदामा, लक्ष्मीकुमारी चूंडावत, विजयदान देथा, बैजनाथ पँवार, करणीदान बारहठ, जहूर खाँ मेहर, अर्जुनदेव चारण।

4. राजस्थानी पद्य एवं गद्यः रूपों का सामान्य परिचय :–

पद्य : रासो, वेलि, फागु, चौपाई, पवाड़ा, संधि, बारहमासा, विवाहलो, धमाल, चैत्यपरिपाटी, नीसांणी, गीत एवं सतसई।

गद्य : वचनिका, दवावैत, ख्यात, वात, विगत, पाटनामा, वंशावली, गुर्वावली, बालावबोध, टीका एवं टब्बा।

आधुनिक विधाएँ – कहानी, उपन्यास, नाटक, एकांकी, निबंध, संस्मरण, रेखाचित्र एवं डायरी।

5. राजस्थानी लोक साहित्य एवं संस्कृति :–

- लोक गीत, लोक कथा, लोक गाथा, लोक नाट्य, लोकोक्ति (कहावतें एवं मुहावरे)
- लोकदेवी–देवता, लोक उत्सव, (मेले, पर्व एवं तीज त्योहार)

(खंड–तृतीय स्नातकोत्तर स्तर)

6. राजस्थानी काव्य शास्त्र :–

- काव्य हेतु, लक्षण एवं प्रयोजन
- रस सि़द्धांतः रसनिष्पत्ति, साधारणीकरण
- ध्वनि सिद्धांत एवं वक्रोक्ति सिद्धान्त
- रचनाएँ
    1. ढोला मारू रा दूहा (सम्पादक : सूर्यकरण पारीक, ठा. रामसिंह एवं नरोत्तम स्वामी) मारवाणी संदेसा (दूहा सं. 110–210)
    2. मीरां वृहत् पदावली, भाग–1 (सम्पादक : हरिनारायण पुरोहित) (पद संख्या–01 से 50 तक)
    3. बादळी (चंद्रसिंह बिरकाली) (संपूर्ण)
    4. अलेखूँ हिटलर– विजयदान देथा, काँच रो चिलको – यादवेंद्र शर्मा 'चंद्र' (कहानी), कूदणो बाबो–नेमनारायण जोशी (संस्मरण) एवं मारजा – शिवराज छंगाणी (रेखाचित्र)

खंड–चतुर्थ (शिक्षा शास्त्र, शिक्षण–अधिगम सामग्री, कम्प्यूटर एवं सूचना तकनीकी का शिक्षण–अधिगम में उपयोग)

- **शिक्षण शास्त्र एवं शिक्षण अधिगम सामग्री (किशोर अधिगमकर्त्ता हेतु अनुदेशनात्मक रणनीतियाँ)**
  - संप्रेषण कौशल एवं विविध शाब्दिक एवं अशाब्दिक कक्षा–कक्ष संप्रेषण रणनीतियों का प्रयोग/उपयोग
  - शिक्षण प्रतिमान– अग्रिम संगठक प्रतिमान एवं पृच्छा प्रशिक्षण प्रतिमान (सूचना प्रसंस्करण), सामूहिक अन्वेषण (सामाजिक अंतः क्रिया) गैर निर्देशात्मक प्रतिमान (व्यक्तिगत विकास)
  - शिक्षण के दौरान शिक्षण–अधिगम सामग्री का निर्माण एवं प्रयोग
  - सहकारी अधिगम

- **शिक्षण अधिगम में संगणक एवं सूचना प्रौद्योगिकी का उपयोग**
  - आई.सी. टी. (सूचना एवं संचार प्रौद्योगिकी) का संप्रत्यय एवं डिजिटल अधिगम
  - ई–अधिगम एवं वर्चुअल (आभासी) कक्षा–कक्ष
  - शिक्षण–अधिगम एवं आकलन में प्रौद्योगिकी का एकीकरण

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For the competitive examination for the post of School Lecturer: -

1. The question paper will carry maximum **300 marks.**
2. Duration of question paper will be **Three Hours**.
3. The question paper will carry **150 questions** of multiple choices.
4. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.
5. Paper shall include following subjects :-
   (i) Knowledge of Subject Concerned: Senior Secondary Level
   (ii) Knowledge of Subject Concerned: Graduation Level.
   (iii) Knowledge of Subject Concerned: Post Graduation Level.
   (iv)Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

PUNJABI

PAPER- II

ਭਾਗ ਪਹਿਲਾ (ਸੀਨੀਅਰ ਸੈਕੰਡਰੀ ਪੱਧਰ)

1. ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ

ਭਾਸ਼ਾ: ਪਰਿਭਾਸ਼ਾ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ

ਪੰਜਾਬੀ ਦੀਆਂ ਉਪਭਾਸ਼ਾਵਾਂ: ਮਾਝੀ, ਮਲਵਈ, ਦੁਆਬੀ, ਪੁਆਧੀ:

ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਖੇਤਰ, ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ

2. ਧੁਨੀ ਬੋਧ

ਧੁਨੀ ਅਤੇ ਪੰਜਾਬੀ-ਧੁਨੀਆਂ: ਪਛਾਣ ਅਤੇ ਵਰਗੀਕਰਨ

ਪੰਜਾਬੀ ਸਵਰ ਤੇ ਵਿਅੰਜਨ ਧੁਨੀਆਂ: ਪਛਾਣ ਅਤੇ ਵਰਗੀਕਰਨ

3. ਲਿਪੀ ਬੋਧ

ਲਿਪੀ, ਗੁਰਮੁਖੀ ਲਿਪੀ ਅਤੇ ਵਰਨਮਾਲਾ

ਗੁਰਮੁਖੀ ਦੀਆਂ ਲਗਾਂ-ਮਾਤਰਾਂ, ਲਗਾਖਰ, ਸੰਯੁਕਤ ਅੱਖਰ: ਸਰੂਪ ਤੇ ਵਰਤੋਂ ਨੇਮ

4. ਸ਼ਬਦ ਬੋਧ (ਪਰਿਭਾਸ਼ਕ ਤੇ ਵਿਹਾਰਕ ਅਧਿਐਨ)

(ੳ) ਸ਼ਬਦ-ਭੇਦ (ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ) –

ਨਾਂਵ, ਪੜਨਾਂਵ, ਵਿਸ਼ੇਸ਼ਣ, ਕਿਰਿਆ, ਕਿਰਿਆ-ਵਿਸ਼ੇਸ਼ਣ, ਸੰਬੰਧਕ, ਯੋਜਕ, ਵਿਸਮਕ

(ਅ) ਸ਼ਬਦ ਰਚਨਾ - ਮੂਲ ਸ਼ਬਦ, ਸਮਾਸੀ ਸ਼ਬਦ, ਉਤਪੰਨ ਸ਼ਬਦ (ਅਗੇਤਰ-ਪਿਛੇਤਰ)

(ੲ) ਵਿਆਕਰਨਕ ਇਕਾਈਆਂ - ਲਿੰਗ, ਵਚਨ, ਕਾਰਕ, ਕਾਲ

5. ਵਾਕ ਬੋਧ

ਉਦੇਸ਼, ਵਿਧੇਅ, ਵਾਕ-ਵਿਉਂਤ, ਵਾਕੰਸ਼, ਉਪਵਾਕ, ਵਾਕ-ਬਣਤਰ, ਵਾਕ-ਵੰਡ

6. ਅਰਥ ਬੋਧ

ਬਹੁ-ਅਰਥਕ ਸ਼ਬਦ, ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ, ਵਿਰੋਧੀ ਸ਼ਬਦ, ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇਕ ਸ਼ਬਦ

7. ਅਣਡਿੱਠਾ ਪੈਰ੍ਹਾ (ਕਾਵਿ ਅਤੇ ਵਾਰਤਕ): ਸਿਰਲੇਖ, ਵਿਸ਼ਾ-ਵਸਤੂ ਬੋਧ, ਭਾਵਾਰਥ ਅਤੇ ਸ਼ਬਦਾਰਥ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਭਰਪੂਰ ਪ੍ਰਸ਼ਨ

8. ਵਿਸ਼ਰਾਮ-ਚਿੰਨ੍ਹ

9. ਅਖਾਣ ਅਤੇ ਮੁਹਾਵਰੇ

10. ਰਸ: ਨੌਂ ਰਸ: ਪਰਿਭਾਸ਼ਾ, ਲੱਛਣ, ਪ੍ਰਕਾਰ, ਉਦਾਹਰਨ

11. ਛੰਦ: ਦੋਹਿਰਾ, ਚੌਪਈ, ਕੋਰੜਾ, ਕਬਿੱਤ, ਦਵਈਆ, ਬੈਂਤ: ਪਰਿਭਾਸ਼ਾ, ਲੱਛਣ, ਪ੍ਰਕਾਰ, ਉਦਾਹਰਨ

12. **ਅਲੰਕਾਰ:** ਉਪਮਾ, ਅਤਿਕਥਨੀ, ਅਨੁਪ੍ਰਾਸ, ਦ੍ਰਿਸ਼ਟਾਂਤ: ਪਰਿਭਾਸ਼ਾ, ਲੱਛਣ, ਪ੍ਰਕਾਰ, ਉਦਾਹਰਨ
13. **ਸਾਹਿਤ ਰੂਪ:** ਕਾਫ਼ੀ, ਵਾਰ, ਕਿੱਸਾ, ਕਵਿਤਾ, ਗੀਤ, ਗ਼ਜ਼ਲ, ਨਾਟਕ, ਇਕਾਂਗੀ, ਨਾਵਲ, ਨਿੱਕੀ ਕਹਾਣੀ, ਜੀਵਨੀ, ਸਫ਼ਰਨਾਮਾ ਅਤੇ ਰੇਖਾ-ਚਿਤਰ: ਅਰਥ, ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਤੱਤ
14. **ਲੋਕ ਸਾਹਿਤ ਰੂਪ:** ਲੋਰੀ, ਸੁਹਾਗ, ਘੋੜੀ, ਸਿੱਠਣੀ, ਅਲਾਹੁਣੀ, ਟੱਪਾ, ਬੁਝਾਰਤ: ਸਰੂਪ ਅਤੇ ਵੰਨਗੀਆਂ
15. **ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ:** ਮੇਲੇ-ਤਿਉਹਾਰ, ਪੰਜਾਬੀ ਲੋਕ ਨਾਚ, ਪੰਜਾਬੀ ਲੋਕ ਖੇਡਾਂ: ਸਰੂਪ ਅਤੇ ਵੰਨਗੀਆਂ
16. **ਪੰਜਾਬੀ ਲੋਕ ਕਹਾਣੀ:** ਨੀਤੀ-ਕਥਾਵਾਂ, ਪਰੀ-ਕਥਾਵਾਂ, ਦੰਦ ਕਥਾਵਾਂ: ਸਰੂਪ ਅਤੇ ਵੰਨਗੀਆਂ

ਭਾਗ ਦੂਜਾ (ਗ੍ਰੈਜੂਏਸ਼ਨ ਪੱਧਰ)

(ੳ) ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (ਆਦਿ ਕਾਲ ਤੋਂ ਆਧੁਨਿਕ ਕਾਲ ਤਕ)

1. ਨਾਥਾਂ ਜੋਗੀਆਂ ਦਾ ਸਾਹਿਤ

2. ਸੂਫ਼ੀ ਕਾਵਿ ਧਾਰਾ

ਸ਼ੇਖ ਫ਼ਰੀਦ: ਸ਼ਬਦ ਤੇ ਸਲੋਕ

ਸ਼ਾਹ ਹੁਸੈਨ: ਕਾਫ਼ੀਆਂ

ਸੁਲਤਾਨ ਬਾਹੂ: ਸੀਹਰਫ਼ੀਆਂ

ਮੀਆਂ ਵਜੀਦ: ਸਲੋਕ

ਬੁੱਲ੍ਹੇ ਸ਼ਾਹ: ਕਾਫ਼ੀਆਂ, ਬਾਰਾਮਾਹ, ਅਠਵਾਰਾ, ਗੰਢਾਂ

3. ਗੁਰਮਤਿ ਕਾਵਿ ਧਾਰਾ

ਗੁਰੂ ਨਾਨਕ ਦੇਵ: ਜਪੁ, ਸਿਧ ਗੋਸਟਿ, ਪਟੀ, ਬਾਬਰ ਬਾਣੀ, ਬਾਰਹ ਮਾਹ ਤੁਖਾਰੀ ਅਤੇ ਵਾਰਾਂ

ਗੁਰੂ ਅੰਗਦ ਦੇਵ: ਸਲੋਕ

ਗੁਰੂ ਅਮਰਦਾਸ: ਅਨੰਦ ਸਾਹਿਬ, ਅਲਾਹਣੀਆਂ, ਵਾਰ-ਸਤ, ਵਾਰਾਂ

ਗੁਰੂ ਰਾਮਦਾਸ: ਬਿਰਹੜੇ, ਲਾਵਾਂ, ਘੋੜੀਆਂ, ਵਾਰਾਂ

ਗੁਰੂ ਅਰਜਨ ਦੇਵ: ਬਾਵਨ ਅਖਰੀ, ਸੁਖਮਨੀ, ਬਾਰਹ ਮਾਹ ਮਾਂਝ ਅਤੇ ਵਾਰਾਂ

ਗੁਰੂ ਤੇਗ ਬਹਾਦਰ: ਸ਼ਬਦ, ਸਲੋਕ

ਭਾਈ ਗੁਰਦਾਸ: ਵਾਰਾਂ

4. ਕਿੱਸਾ ਕਾਵਿ ਧਾਰਾ

ਦਮੋਦਰ: ਹੀਰ, ਪੀਲੂ: ਮਿਰਜ਼ਾ-ਸਾਹਿਬਾਂ, ਹਾਫ਼ਿਜ਼ ਬਰਖ਼ੁਰਦਾਰ: ਯੂਸਫ਼ ਜ਼ੁਲੈਖਾਂ,

ਵਾਰਿਸ ਸ਼ਾਹ: ਹੀਰ, ਹਾਸ਼ਮ ਸ਼ਾਹ: ਦੋਹੜੇ, ਡਿਉਢ, ਸੱਸੀ-ਪੁੰਨੂੰ, ਕਾਦਰ ਯਾਰ: ਪੂਰਨ ਭਗਤ, ਸੀਹਰਫ਼ੀ ਸਰਦਾਰ ਹਰੀ ਸਿੰਘ ਨਲੂਆ, ਫ਼ਜ਼ਲ ਸ਼ਾਹ: ਸੋਹਣੀ-ਮਹੀਂਵਾਲ

5. ਬੀਰ ਕਾਵਿ ਧਾਰਾ

ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ: ਚੰਡੀ ਦੀ ਵਾਰ

ਨਜਾਬਤ: ਵਾਰ ਨਾਦਰ ਸ਼ਾਹ

ਸ਼ਾਹ ਮੁਹੰਮਦ: ਜੰਗਨਾਮਾ ਸਿੰਘਾਂ ਤੇ ਫ਼ਰੰਗੀਆਂ

ਪੀਰ ਮੁਹੰਮਦ: ਚੱਠਿਆਂ ਦੀ ਵਾਰ

6. ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ

ਭਾਈ ਵੀਰ ਸਿੰਘ, ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਿਕ, ਪ੍ਰੋ. ਪੂਰਨ ਸਿੰਘ, ਪ੍ਰੋ. ਮੋਹਨ ਸਿੰਘ, ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ, ਬਾਵਾ ਬਲਵੰਤ, ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ, ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ, ਅਵਤਾਰ ਪਾਸ਼, ਸੰਤ ਰਾਮ ਉਦਾਸੀ, ਸ਼ਿਵ ਕੁਮਾਰ ਬਟਾਲਵੀ, ਸੁਰਜੀਤ ਪਾਤਰ, ਜਸਵੰਤ ਜ਼ਫ਼ਰ: ਰਚਨਾਵਾਂ, ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਗਤ/ਰੂਪਗਤ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ

7. ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ

(ੳ) ਨਿਬੰਧ – ਪ੍ਰਿੰ. ਤੇਜਾ ਸਿੰਘ, ਪ੍ਰੋ. ਸਾਹਿਬ ਸਿੰਘ, ਦੇਵਿੰਦਰ ਸਤਿਆਰਥੀ, ਮਹਿੰਦਰ ਸਿੰਘ ਰੰਧਾਵਾ, ਗਿਆਨੀ ਗੁਰਦਿੱਤ ਸਿੰਘ, ਸੋਹਿੰਦਰ ਸਿੰਘ ਵਣਜਾਰਾ ਬੇਦੀ, ਪ੍ਰਿੰ. ਸਰਵਣ ਸਿੰਘ: ਰਚਨਾਵਾਂ, ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਗਤ/ਵਿਧਾਗਤ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ

(ਅ) ਸਫ਼ਰਨਾਮਾ – ਲਾਲ ਸਿੰਘ ਕਮਲਾ ਅਕਾਲੀ, ਬਲਰਾਜ ਸਾਹਨੀ, ਗਿ. ਹੀਰਾ ਸਿੰਘ ਦਰਦ, ਮਨਮੋਹਨ ਬਾਵਾ: ਰਚਨਾਵਾਂ, ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਗਤ/ਵਿਧਾਗਤ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ

8. ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਗਲਪ

(ੳ) ਨਾਵਲ –

ਨਾਨਕ ਸਿੰਘ, ਸੋਹਨ ਸਿੰਘ ਸੀਤਲ, ਜਸਵੰਤ ਸਿੰਘ ਕੰਵਲ, ਹਰਨਾਮ ਸਿੰਘ ਸਹਿਰਾਈ, ਗੁਰਦਿਆਲ ਸਿੰਘ, ਰਾਮ ਸਰੂਪ ਅਣਖੀ, ਕਰਮਜੀਤ ਸਿੰਘ ਕੁੱਸਾ, ਡਾ. ਦਲੀਪ ਕੌਰ ਟਿਵਾਣਾ: ਰਚਨਾਵਾਂ, ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਗਤ/ਰੂਪਗਤ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ

(ਅ) ਨਿੱਕੀ ਕਹਾਣੀ -

ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ, ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਸੁਜਾਨ ਸਿੰਘ, ਕਰਤਾਰ ਸਿੰਘ ਦੁੱਗਲ, ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ, ਪ੍ਰੇਮ ਪ੍ਰਕਾਸ਼, ਅਜੀਤ ਕੌਰ, ਵਰਿਆਮ ਸਿੰਘ ਸੰਧੂ, ਗੁਰਬਚਨ ਸਿੰਘ ਭੁੱਲਰ, ਗੁਰਦੇਵ ਸਿੰਘ ਰੁਪਾਣਾ: ਰਚਨਾਵਾਂ, ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਗਤ/ਰੂਪਗਤ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ,ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ

9. ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਨਾਟਕ, ਇਕਾਂਗੀ ਤੇ ਰੰਗਮੰਚ

ਈਸ਼ਵਰ ਚੰਦਰ ਨੰਦਾ, ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਹਰਚਰਨ ਸਿੰਘ, ਗੁਰਸ਼ਰਨ ਸਿੰਘ, ਆਤਮਜੀਤ ਸਿੰਘ, ਚਰਨਦਾਸ ਸਿੱਧੂ, ਸੁਰਜੀਤ ਸਿੰਘ ਸੇਠੀ, ਅਜਮੇਰ ਸਿੰਘ ਔਲਖ, ਸਵਰਾਜਬੀਰ: ਰਚਨਾਵਾਂ, ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਗਤ/ਰੰਗਮੰਚੀ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ, ਸਾਹਿਤਕ ਯੋਗਦਾਨ ਅਤੇ ਪ੍ਰਾਪਤੀਆਂ

10. **ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿਪੀ:** ਨਿਕਾਸ, ਵਿਕਾਸ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
11. **ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ:** ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
12. **ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਅਤੇ ਲੋਕਧਾਰਾ:** ਸੋਮੇ, ਭੂਗੋਲਕਤਾ, ਵਿਲੱਖਣਤਾ, ਪਛਾਣ-ਚਿੰਨ੍ਹ
13. **ਪੰਜਾਬੀ ਲੋਕ ਸਾਹਿਤ ਰੂਪ** – ਢੋਲਾ, ਮਾਹੀਆ, ਟੱਪਾ, ਅਲਾਹੁਣੀ, ਸਿੱਠਣੀ, ਸੁਹਾਗ ਗੀਤ, ਲੰਮੀ ਬੋਲੀ, ਘੋੜੀਆਂ: ਅਰਥ, ਪਰਿਭਾਸ਼ਾ, ਵਰਗੀਕਰਨ ਅਤੇ ਵੰਨਗੀਆਂ
14. **ਪੰਜਾਬੀ ਸਾਹਿਤ ਰੂਪ** - ਸਲੋਕ, ਪਟੀ, ਅਸ਼ਟਪਦੀ, ਬਾਰਾਮਾਹ, ਸਤਵਾਰਾ, ਕਾਫ਼ੀ, ਸੀਹਰਫ਼ੀ, ਮਹਾਂਕਾਵਿ, ਜਨਮਸਾਖੀ: ਅਰਥ, ਪਰਿਭਾਸ਼ਾ, ਵਰਗੀਕਰਨ ਅਤੇ ਵੰਨਗੀਆਂ

ਭਾਗ ਤੀਜਾ (ਪੋਸਟ ਗ੍ਰੈਜੂਏਸ਼ਨ ਪੱਧਰ)

1. **ਭਾਸ਼ਾ ਵਿਗਿਆਨ:** ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ, ਖੇਤਰ
2. **ਧੁਨੀ ਵਿਗਿਆਨ ਅਤੇ ਪੰਜਾਬੀ ਧੁਨੀ-ਵਿਉਂਤ:** ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ, ਖੇਤਰ
3. **ਸੰਰਚਨਾਤਮਕ ਭਾਸ਼ਾ ਵਿਗਿਆਨ :** ਚਿਹਨਕ ਤੇ ਚਿਹਨਤ, ਲਾਂਗ ਤੇ ਪੈਰੋਲ, ਇਕਾਲਕ ਤੇ ਦੁਕਾਲਕ, ਕੜੀਦਾਰ ਅਤੇ ਲੜੀਦਾਰ
4. **ਨੌਮ ਚੌਮਸਕੀ:** ਰੂਪਾਂਤਰੀ ਵਿਆਕਰਨ, ਭਾਸ਼ਾਈ ਯੋਗਤਾ, ਭਾਸ਼ਾਈ ਨਿਭਾਅ, ਗਹਿਨ ਸੰਰਚਨਾ, ਸਤਹੀ ਸੰਰਚਨਾ
5. **ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ:** ਧੁਨੀ ਸਿਧਾਂਤ, ਅਲੰਕਾਰ ਸਿਧਾਂਤ, ਰਸ ਸਿਧਾਂਤ: ਰਸ ਨਿਸ਼ਪੱਤੀ, ਸਧਾਰਨੀਕਰਨ
6. **ਅਰਸਤੂ:** ਅਨੁਕਰਨ, ਵਿਰੇਚਨ, ਤ੍ਰਾਸਦੀ ਸਿਧਾਂਤ
7. **ਲੌਂਜਾਈਨਸ ਦਾ ਉਦਾਤ ਸੰਕਲਪ:** ਪ੍ਰਕਿਰਤੀ, ਸੋਮੇ, ਵਿਰੋਧੀ ਤੱਤ
8. **ਰੂਸੀ ਰੂਪਵਾਦ:** ਥੀਮ, ਮੋਟਿਫ, ਵਿਰੋਪਨ, ਫੇਬੁਲਾ, ਸੁਜੇਤ, ਅਜਨਬੀਕਰਨ, ਕਾਵਿ ਭਾਸ਼ਾ
9. **ਪ੍ਰਮੁੱਖ ਪੰਜਾਬੀ ਅਲੋਚਕ:** ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ, ਅਤਰ ਸਿੰਘ, ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ, ਡਾ. ਜੋਗਿੰਦਰ ਸਿੰਘ ਰਾਹੀ, ਡਾ. ਹਰਿਭਜਨ ਸਿੰਘ ਭਾਟੀਆ
10. **ਲੋਕ ਸਾਹਿਤ:** ਸਰੂਪ, ਵਰਗੀਕਰਨ
11. **ਪੰਜਾਬੀ ਨਾਟਕ ਅਤੇ ਰੰਗਮੰਚ:** ਅਰੰਭ, ਵਿਕਾਸ, ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ

Part – IV (Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning)

I. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
URDU

PAPER – II

Part– I Senior Secondary Level

Prose:
Drama : Agha Hashr kashmeri: Yahoodi ki Ladki
Short Story-:
1) Quratulain Haider: Photographer
2) Balwant Singh: Lamhe
3) Surendra Prakash: Bajooka
4) Iqbal Majeed: Sukoon Ki Neend

Inshaiyya : Khwaja Hasan Nizami: Machhar
Tanqeed : Ehtesham Hussain: Khuji
Khaka :
1) Ahmed Jamal Pasha: Kaleemuddin Ahmed
2) Shahid Ahmed Dehlavi: Meer Baqar Ali Dastan go

Rhetorics- : Tashbeeh, Isteara, Mubaligha and Tajahul-E- Arifana
Various forms of Poetry and Prose:
- Ghazal, Qasida and Marsiya
- Novel, Afsana and Khaka

Poetry:
Ghazaliyat : Wali Dakkani, Meer Taqi Meer, Meer Dard, Moin Ahsan Jazbi, Nasir Kazmi and Jan Nisar Akhtar
Manzoomat: Nazeer Akbarabadi,Ismail Merathi, Akbar Allahabadi, Makhdoom Mohiuddin and Noon Meem Rashid
Marsiya : Anees
Rubaiyat : Jagat Mohan Lal Rawan and Amjad Haiderabadi
Geet : Akhtar Shirani, Meeraji, Salam Machhli Shehari and Ehsan Danish

Part– II Graduation Level
Prose:
Drama : Krishan Chandra : Darwaze Khol Do

Novel : Prem Chand : Bewa

Short Story :

1)Premchand : Namak Ka Darogha

2) Rajendra Singh Bedi : Lajwanti

3) Saadat Hasan Minto : Naya Qanoon

Inshaiyya :

1)Sajjad Haider Yaldaram : Mujhe Mere Doston Se Bachao

2)Farhatullah Baig : Yar bash

3)Sir Syed Ahmed Khan : Guzra Hua Zamana

Rhetorics : Majaz e Mursal, Laff-o-Nashr, Talmeeh, Tazad, Iham, Husn-e-Taleel, Tanseequs-Sifat, Ishtiqaq and Muraatun-Nazeer

Various Forms of Prose and Poetry

Poetry: Masnavi, Rubai, Qita, Muarra Nazm and Azad Nazm

Prose : Dastan, Reportage and Inshaiya

Poetry:

1) **Ghazaliyat :** Nasikh, Atish, Ghalib, Momin and Aziz
(Prescribed Ghazaliyat from Sheh Pare Published by Allahabad University 1981)

2) **Manzoomat** :
1.Pandit Brij Narayan Chakbast : Awaza e Qaum
2.Iqbal : Naya Shiwala
3.Josh : Albeli Subha

3) **Qasida** : Zauq :Wah wah kya motadil hai baghe alam ki hawa

4) **Marsiya** : Anees:Namak e khwan e takallum hai fasahat meri

Part – III Post Graduation Level

Prose:

Dastan : Meer Amman : Bagh-O-Bahar

Drama : Imtiyaz Ali Taj : Anarkali

Novel : Mirza Hadi Ruswa : Umrao Jan Ada

Afsana : 1)Prem Chand : Wardaat
2)Krishan Chandra : Andata

Poetry:

Ghazaliyat :

1) Wali : Mutala-e-Wali- Edited by Sharib Radaulvi (Raddef 'Alif',First Ten Ghazaliyat).

2) Daagh : Aftab e Dagh (Radif Noon, First ten Ghazaliyat)

3) Firaq : (First ten Ghazliyat from Gul e Naghma)

Manzoomat:

1) Iqbal : Tule e Islam
2) Akhtar Sheerani: Aai Ishq Kaheen Le Chal and O! Des Se Aane Wale Bata

History of Urdu Literature:

- Urdu Poetry in Dakkan up to 1700 A.D.
- Urdu Prose and Poetry in North India up to1857
- Contribution of Aligarh Movement in the development of Urdu Prose
- Progressive Movement in Urdu Literature
- Modernism with special reference to Nazm and Afsana

Part – IV (Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning)

I. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

- Communication skills and use of various verbal and non verbal classroom communication strategies.
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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
HISTORY

PAPER – II

Part I: Senior Secondary Level

1. Sources of Ancient India: Literary, Archeological, Foreign Traveler Account.
2. Saraswati-Sindhu Civilization (Harappan Civilization): Origin, Expansion, Decline, Archeological Sites, Characteristics
3. State Formation and Urbanization (From Mahajanpadas to Nanda), Alexender's Invasion and its impact.
4. Maurayan Empire: Establishment, Expansion, Administration, Economy, Art and Architecture, Religion and Decline.
5. Delhi Sultanate: Establishment, Expansion, Administrative System, Innovation in land revenue, Society and architecture.
6. Emergence of Regional Powers and Establishment of Colonial Rule in India (1707 to 1857).
7. Growth of British Paramountcy.
8. Revolt of 1857: Nature, Events, Importance and Results.
9. Renaissance, Reformation and Counter Reformation, Industrialization in Europe.
10. First and Second World War: Causes, Events and Results.
11. League of Nation and United Nations.
12. Major Archeological Sites of Rajasthan.
13. Emergence of Rajput Dynasties of Rajasthan.
14. Rajput Resistance during Sultunate and Mugal Period.

Part II: Graduation Level

1. Pre and Proto History: Paleolithic age, Mesolithic Age, Neolithic Age and Chalcolithic Age, Metal Age, Rock Art, Megalith
2. Vedic Age: Varna, Ashram, Samskaras and Purusharth, Political, Social, Economy, Religion and Philosophy.
3. Religious Revival of Sixth Century B.C. (Jainism, Buddhism and others)
4. Post Mauryan Age: Shunga, Kanva, Indo-Greek, Kushan,Western Kshatrapas.
5. Gupta Age: Political and Cultural Achievements, Society, Economy, Science and Technology. Vardhan Dynasty: Political and Cultural Achievements.
6. Indian Culture Abroad in Ancient India: West Asia, Central Asia and South-East Asia.
7. Sources of Medieval India.
8. Spiritual Reforms; Bhakti Movement and Sufism. From 7^{th} Century to 16^{th} Century

9. Foundation and Expansion of Mughal Empire and Mughal Policies: Deccan, Religious, Rajput, North-West; Art and Architecture.
10. Rise of Maratha (From Shivaji to Peshwas upto 1761).
11. Indian Constitutional Development (1773-1950).
12. British Policies and their Impact; Economic, Administrative and Socio Cultural.
13. Socio-Religious Reforms in 19th and 20th Century.
14. Growth of Nationalism (1857-1919).
15. Revolutions and their impact (American, French, Russian)
16. Unification of Italy and Germany.
17. Role of Rajasthan in the Revolt of 1857.
18. Tribal and Peasant Movement in Rajasthan.
19. Administration and Revenue System of Rajasthan

Part III: Post Graduation Level

1. Education system in ancient India.
2. Society, Economy, Culture in Post Mauryan Age.
3. Peninsula India: Satvahana, Sangam Age, Chalukyas, Pallavas, Choals, Rashtrakutas- literature, society, administration, economy, culture, polity
4. Religious Practices, Temple Architectures, Sculpture.
5. Society and Cultural Development during early Medieval India.
6. Changes in Administrative System of Mughals: Revenue System, Military Administration, Mansabdari and Jagirdari.
7. Regional Powers in Deccan and their achievement in medieval period.
8. Development of Education and Press in 19th Century.
9. Gandhian Era: Gandhi and National Movement. Role and Contribution of Jawahar Lal Nehru, Subhash Chandra Bose, Maulana Azad, Vallabh Bhai Patel, C. Rajgopalachari, Rajendra Prasad, Bhim Rao Ambedkar in National Movement.
10. Towards freedom, Partition of India.
11. Understanding of Political, Social, economical, science and Technology, development (Post independence to 2000)
12. World between two World wars.
13. Post world war: Chinese Revolution of 1949, cold war and conflicts, disintegration of Soviet Union
14. New Trends and Challenges (upto 2000) Globalisation, Liberalisation and Social Environmental issues.
15. Sources of History of Rajasthan: Archeological, Archival and Literary.
16. Awakening in Rajasthan: Social Changes and Political Awakening.
17. Integration of Rajasthan: its Various Stages.
18. Religious Reforms, Art, Architecture and Paintings of Rajasthan.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
POLITICAL SCIENCE

PAPER – II

Part I - Senior Secondary Level

- Political Theory: Nature Scope and Significance, Traditional and Modern Perspective.
- Political Concepts (With Contemporary Trends): Sovereignty, Liberty, Equality, Justice, Rights, Citizenship, Nationalism, Power, Authority and Legitimacy.
- Constitution of India: Constituent Assembly, Philosophy of the Constitution, Preamble, Citizenship, Fundamental Rights, Directive Principles of State Policy, Fundamental Duties.
- Union Government: President, Vice-President, Prime Minister and Council of Ministers, Attorney-General, Parliament, Supreme Court.
- State Government: Governor, Chief Minister and Council of Ministers, Advocate General, Legislature, High Court (with Special reference to Rajasthan).
- Local Self-Government: Panchayats, Municipalities, Dynamics of Rural and Urban Local Governance.
- Indian Politics: Nation Building and Integration, Political Parties, Pressure Groups, Social-Political Movements, Electoral Process, Lok Sabha Elections.
- International Politics: Bretton Woods System, Cold War, American Hegemony and Its Instruments, Resource Geo-Politics, Environmental Issues, Countering Terrorism, Nuclear Proliferation, Globalization.

Part-II Graduation Level-

- Political Theory: Decline and Resurgence, Behaviouralism, Post Behviouralism, Contemporary Trends.
- State: Nature, Functions and Future of State.
- Organs of Government: Legislature, Executive and Judiciary (United Kingdom, United States of America, France, Switzerland and Japan).
- Classification of Government: Democracy and Dictatorship, Parliamentary and Presidential, Unitary and Federal.
- Political Parties and Pressure Groups in United Kingdom, United States of America and France.

- Trends in Federalism and Centre State Relations in India.
- Western Political Thinkers: Plato, Aristotle Machiavelli, Thomas Hobbes, John Locke, J.J Rousseau, John Stuart Mill, Karl Marx.
- Indian Political Thinkers: Kautilya, Swami Vivekanand, B. G. Tilak, M.K. Gandhi, Sri Aurobindo, B.R. Ambedkar, Jawahar Lal Nehru, R.M Lohia.
- India's Foreign Policy: Principles and Determinants India's Relations with United States of America, China, Russia and Neighbouring Countries, India's Role in United Nations and Non-Aligned Movement, National Security Issues.

Part-III Post Graduation Level-

- Postmodernism, Post-Structuralism, Multiculturalism, Cosmopolitanism, Feminism, Green Political Theory.
- Political System, Political Development, Political Modernisation, Political Culture, Political Socialisation, Social Capital, Democratization.
- Dynamics of Indian Politics: Gender, Caste, Class, Changing Nature of Party System, Coalition Politics and Alliances, Regional Aspirations, Electoral Politics and Electoral Reforms.
- Theories of International Relations: Liberalism, Realism, Constructivism, Post- Colonialism, Institutionalism, Environmentalism.
- International Organisations: United Nations, European Union, G-7, G-20, NATO, BRICS, World Trade Organisation, World Bank.

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GEOGRAPHY

PAPER – II

Part- I Senior Secondary Level

- **Physical Geography**:
  Latitude, Longitude, Motion of Earth
  Interior of earth, Rocks, Earthquakes and Volcanoes, Geomorphic Process and Landforms.
  Structure and Composition of Atmosphere, Insolation and Temperature, Humidity and Precipitation.
  Relief features of the Oceans, Salinity, Tides and Ocean currents.
- **India**-
  Location, Physiographic divisions, Climate, Natural Vegetation, Soil, Flood, Draught, Landslides. Major crops, Minerals, Major Industries, Demographic Characteristics, Transport and Communication, Environmental Issues.
- **Human Geography**-
  Definition, Nature and Scope. Primary, Secondary, Tertiary and Quaternary activities. Transport, Communication and Trade. Distribution, density and growth of World Population. Human Development concept.
- **Practical Geography**-
  Scale, Maps, Map-Projections, Spatial Information Technology, Graphical Representation of Data, Topographical Map, Weather Map and Chart.

Part- II Graduation Level

- **Physical Geography:**
  Geological Time Scale, Origin of Earth**,** Isostasy, Earth movements, Pressure belts and Winds, Air mass and Fronts. Classification of climate of the world: Koeppen, Thornthwaite. Ocean Deposits, Formation of Coral Reefs and Atolls.
- **Human Geography:**
  Modern school of thought in Human Geography: Possibilism, Determinism, Neo-determinism. Migration- its causes and types. Classification and distribution of races of the world, Human settlements.
- **Economic Geography:**
  Natural resources and their distribution, Agricultural Regions of the world, Industrial Regions of the world.

- **Geography of Thought:**
  Definition, nature, scope and purpose of Geography, contribution of Greek, Roman and Arab Geographers. Works of Humboldt, Ritter, Ratzel, Hartshorne, Huntington, Blache and Carl Saur.
- **Rajasthan:**
  Physiography, Drainage, Climate, Natural Vegetation and Wildlife, Soil, Irrigation, Livestock, Minerals, Industries, Demographic Characteristics, Agriculture, Agro-Climatic Regions.

Part- III Post Graduation Level

- **Geography of Thought-**
  Recent trends in geography: Quantitative Revolution, Behavioral Geography, Positivism, Radical Geography, Humanistic Geography, Exceptionalism and Realism. Development of geography in India.

- **Geomorphology-**
  Fundamental concepts, Origins of Continents and Oceans, Plate Tectonics, Mountain Building, Cycle of Erosion, Slope Evolution.
- **Economic Geography-**
  Industrial location theories- Weber, Hoover, Losch, Isard and Smith, Economic Regions of India, Environmental Degradation due to Industrialization and Industrial Hazards.
- **Urban Geography-**
  Origin and growth of Towns in Ancient, Medieval and Modern period. Urban Morphology, Theories of Urban Morphology/Structure, Christaller's Central Place Theory.
- **Agricultural Geography-**
  Agricultural system, Agricultural Location theories and Land Use Pattern, Diffusion of Innovation, Green Revolution in India, Agro-Forestry.
- **Population Geography-** Theories of Population, Theories of Migration, Demographic Transition Theories. The Population Policy of Government of India. Population problems and Environmental Implications.
- **Political Geography-**
  Approaches to study Political Geography. Frontiers, Boundaries and Buffer zones, Concept of Territory, State and Nation, Global Strategic View- Mackinder, Spykman and Mahan.

Part – IV (Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning)

I. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

- Communication skills and use of various verbal and non verbal classroom communication strategies.
- Teaching models- advance organizer and inquiry training (information processing) Group Investigation (Social Interaction) Non-Directive model (Personal development).
- Preparation and use of teaching-learning material during teaching.
- Cooperative learning.

II Use of Computers and Information Technology in Teaching Learning

- Concept of ICT and Digital learning
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   (i) Knowledge of Subject Concerned: Senior Secondary Level
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   (iv) Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETTIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

ECONOMICS

PAPER –II

Part- I Senior Secondary Level

- Meaning and definitions of economics. Microeconomics and macroeconomics. Positive and normative economics. Central problems of an economy, concepts of production possibility frontier and opportunity cost. Economic systems: characteristics and functions.
- Theory of demand and supply. Elasticity of demand and elasticity of supply.
- Production function: Law of variable proportions and returns to scale. Concepts of cost and cost curves. Concepts of revenue and revenue curves.
- Producer's equilibrium: TR-TC and MR-MC approaches. Forms of market and their characteristics. Price and output determination under perfect competition.
- Macroeconomic variables. Circular flow of income. National income: Concepts, methods of measurement, real and nominal GDP, GDP deflator, GDP and welfare.
- Money: Meaning and functions, supply of money. Functions of commercial bank and credit creation by the commercial banks. Functions of central bank and credit control methods.
- Determination of income and employment: Classical and Keynesian analysis.
- Government Budget: objectives, components and types of budget deficits.
- Balance of Payments: Meaning and components. Determination of foreign exchange rate.
- Meaning and determinants of economic development. Problems of Indian Economy: Poverty, unemployment and inequality.
- Collection, organisation and presentation of data. Measures of central tendency- Arithmetic Mean, Median and Mode.

Part-II Graduation Level

- Theory of consumer behaviour- Utility analysis and indifference curve analysis. Price effect, income effect and substitution effect. Consumer surplus.
- Price and output determination under monopoly and imperfect competition. Oligopoly (Collusive and Non-collusive).
- Consumption hypotheses. Theory of multiplier and accelerator. Trade cycle: Theories and control of trade cycle.

- Quantity theory of money- Theories of demand for money. Inflation- Types, causes, effects and control. Phillips curve. Objectives and tools of monetary and fiscal policy.
- Free trade and protection. Theories of international trade: Comparative cost and opportunity cost. Terms of trade.
- WTO, World Bank, IMF and BRICS. Measurement and indicators of development: PQLI and HDI.
- Measures of Dispersion, Index Numbers and Correlation.
- **Economy of Rajasthan -** Main features of Economy of Rajasthan. Major development projects. Different welfare and development schemes of state Government. Development of agriculture, industry and service sector. Health, education and infrastructure development.

Part-III Post Graduation Level

- Factor price determination: Theories of wages, rent, interest and profit.
- Welfare economics: Pareto optimality, market failure and externalities. New welfare economics.
- IS-LM Model: Relative effectiveness of monetary and fiscal policy. Balance of Payments: Adjustment mechanism
- Growth & Development Models: Lewis model, Harrod-Domar model, Solow and Kaldor model.
- Regression analysis, Interpolation-Extrapolation and Time series analysis.
- Economic Reforms: Liberalization, Privatization and Globalization including financial and fiscal sector reforms.
- Foreign Trade: Composition, volume and direction. Current foreign trade policy and trade reforms.
- Theories of International Trade: Heckscher-Ohlin theorem and factor price equalization. Concept of sustainable development and sustainable development goals. Food security.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
SOCIOLOGY

PAPER – II

Part- I: Senior Secondary Level

1. Development of Sociology in West and India.
2. Sociology: Meaning, Scope and Subject-Matter.
3. Sociology and other Social Sciences.
4. Society – Meaning, Characteristics, Types of Society.
5. Community – Meaning, Characteristics.
6. Institution – Meaning, Features and Types.
7. Association – Meaning and Features
8. Concept of Rural and Urban community, Rural -Urban Continuum.
9. Social Group – Meaning and Types.
10. Family – Meaning, Features, Types and Changes in Indian family system.
11. Marriage – Meaning, Aims, Forms and Types of Hindu Marriage, Changes in Indian marriages
12. Indian Social Problems –Unemployment, Casteism, Communalism, Corruption.
13. Social Change and Mobility– Meaning, Characteristics, Factors and Theories.
14. Culture – Definition, Characteristics, Elements of Culture.
15. Concept of Religion and Magic – Meaning, Characteristics and Types of Magic.

Part- II: Graduation Level

1. Sociological Perspective – Scientific and Humanistic Orientations to Sociological Study.
2. Social Structure – Meaning and Characteristics, features of Indian Social Structure.
3. Social Stratification– Meaning, Forms and Theories of Social Stratification, Caste, Class and Gender.
4. Status and Role – Definition, Characteristics, Types and Relation between Status and Role.
5. Socialization – Meaning, Characteristics, Stages and Agencies, Theories of Socialization (Cooley, Mead, Freud).
6. Social Process – Meaning, Characteristics and Types (Co-operation, Competition and Conflict).
7. Social Control – Meaning, Characteristics, Types and Agencies. Norms and Values.
8. Kinship – Meaning, Features, Kinship Usages.

9. Demographic Profiles of India.
10. Problems of Scheduled Caste, Scheduled Tribes, Women, Problems of Old age and Youth Unrest
11. Crime and Juvenile Delinquency – Meaning, Types of Crimes, Factors and Consequences, Cyber Crime.
12. Social Survey and Social Research – Meaning, Stages and Types.
13. Sampling – Meaning, Features, Types and Techniques of Sampling.
14. Tools of Data Collection – Observation, Interview, Schedule and Questionnaire.
15. Hypothesis – Meaning, Characteristics, Types, Sources.
16. Uses of Statistics in Social Research.

Part- III: Post Graduation Level

1. Emergence of Social Thought – Comte-Positivism, Spencer-Social Darwinism.
2. Durkheim – Division of Labour, Suicide, Social Fact.
3. Max Weber – Social Action, Ideal Type, Views on Religion, Bureaucracy.
4. Karl Marx – Class and Class Conflict, Historical Materialism, Dialectical Materialism.
5. Indian Social Thinkers: G.S. Ghurye, Radhakamal Mukerjee, M.N. Srinivas, Irawati Karwe & B.R. Ambedkar
6. Process of Social Change – Sanskritization, Westernization, Modernization, Liberalization and Globalization.
7. Post Modernism – Meaning and Features.

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SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
PUBLIC ADMINISTRATION

PAPER – II

Part- I Senior Secondary Level

- Meaning, Nature, Scope, and Importance of Public Administration, Public and Private Administration, Evolution of Public Administration as an Independent Discipline.
- Principles of Public Administration: Hierarchy, Unity of Command, Span of Control, Authority and Responsibility, Co-ordination, Delegation, Supervision and Line & Staff.
- Historical background of Indian Administration with special reference to contribution of Kautilya.
- Union Executive: President, Prime Minister, the Council of Ministers, the Comptroller and Auditor-General of India.
- Administration at Central and State Level: Central Secretariat, Cabinet Secretariat, State Secretariat, Role of Chief Secretary.
- Administration at Division and District Level: Role of Divisional Commissioner, District Collector and District Magistrate, Administration at Sub-Division and Tehsil Level.
- Personnel Administration: Recruitment, Training, Classification and Discipline.
- Financial Administration: Budget- Meaning, Types and Significance. Formulation, Enactment and Execution of Budget in India.

Part- II Graduation Level

- Theories of Administration: Classical Theory, Scientific Management, Bureaucratic Model, Human Relations Theory.
- Administrative Behaviour: Decision-Making, Communication, Leadership, Motivation.
- Administrative Institutions & Regulatory Authorities in India: NITI Aayog. Finance Commission. Election Commission, Union Public Service Commission, GST Council, Telecom Regulatory Authority of India (TRAI), Insurance Regulatory and Development Authority of India (IRDAI), Securities and Exchange Board of India (SEBI).
- State Executive: Governor, Chief Minister, and the Council of Ministers- Powers, Functions and Role.

- Accountability and Control over Administration: Legislative, Executive, Judicial and popular control, Lokpal and Lokayukta. Right to Information, Social Audit, The Rajasthan Guaranteed Delivery of Public Services Act 2011. The Rajasthan Right to Hearing Act, 2012.
- Local Government: Historical background, 73rd and 74th Constitutional Amendment Act, Organisational Structure, Powers and Functions of Rural and Urban Local bodies in Rajasthan, State Finance Commission, State Election Commission, PESA Act.
- Issues in Indian Administration: Minister - Civil Servant Relationship, Generalist and Specialist, Neutrality, Anonymity, Integrity, Values and Ethics in Civil Service.

Part- III Post Graduation Level

- New Public Administration, New Public Management, Concept of Good Governance, Post Modernism and New Public Service.
- Approaches to the study of Comparative Public Administration: Ecological, Behavioural and Systems Approach.
- Concept of Development Administration, Administrative Development and Sustainable Development. Role of Civil Society.
- Public Policy Process: Formulation, Implementation, Monitoring and Evaluation.
- Major forms of Public Sector Undertakings: Department, Corporation and Company. Corporate Governance and Corporate Social Responsibility (CSR).
- Administrative Reforms in India: Recommendations of Second Administrative Reforms Commission, National Commission to Review the Working of the Constitution, and Reforms in Centre-State Relations.
- Comparative Public Administration: Meaning, Nature, Scope, Significance. Salient features of Administrative Systems of U.K., U.S.A. and France.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

CHEMISTRY

PAPER - II

Part – I Senior Secondary Level

1. **Atomic Structure:**
   Fundamental particles, Modern concept of atomic structure, Quantum numbers, Aufbau principle, Pauli's exclusion principle, Hund's rule. Electronic configuration of elements, Classification of elements and periodicity in properties, s, p, d and f -Block elements.

2. **p- Block Elements:**
   General introduction, Electronic configuration, Occurrence, Oxidation states, compounds of p-block elements, trends in physical and chemical properties.

3. **Transition Elements:**
   Transition elements, Electronic configuration, Oxidation states, Absorption spectra including charge transfer spectra and magnetic properties, compounds of transition elements, Co-ordination compounds (Werner's theory). Nomenclature (IUPAC), Isomerism, colour and stability of coordination compounds.
   Lanthanides and Actinides: Electronic configuration, Ionic sizes, Oxidation states, Chemical reactivity and general characteristics.

   Applications of d and f-block elements.

4. **Solid State and Surface Chemistry:**
   Classification of solids, Calculation of density of unit cell, Packing in solids, Point defects, electrical and magnetic properties of solids, Physical and Chemical adsorption, catalysis, Colloids and Emulsions.

5. **Solutions:**
   Types of solutions, Solubility and concentrations, vapour pressure of liquid solutions, Ideal and non-ideal solutions, Colligative properties and calculations of molar mass, Abnormal molecular mass, Vant Hoff factor.

6. **Thermodynamics:**
   Thermodynamic terms, Laws of thermodynamics, Zeroth, first and second law and their applications, Concept of work and heat, Spontaneity, Gibb's energy change and equilibrium.

7. **Alkanes, Alkenes, Alkynes and Halo-alkanes:**
   Methods of preparations and chemical reactions of alkanes, alkenes, alkynes and haloalkanes.

8. **Alcohols, Aldehydes, Ketones, Carboxylic Acids and their derivatives:**
   Classification, nomenclature, methods of preparation, physical properties, Chemical reactions of alcohols, aldehydes, ketones, carboxylic acids and their derivatives.

9. **Halo, Nitro, Amino-Arenes and Diazonium Salts:**
   Preparations, Chemical properties of Halo, Nitro, Amino-Arenes and diazonium salts, synthetic applications of diazonium salts.

10. **Bio-molecules:**
    Carbohydrates, proteins, enzymes, vitamins and nucleic acids.

Part – II Graduation Level

1. **Chemical Bonding:**
   Theories of chemical bonding, VB and MO theories of Diatomic molecules, VSEPR theory, Hydrogen bonding, Quantum mechanics, Schrodinger's wave equation for one electron system.

2. **Co-ordination Complexes:**
   Details of Crystal field theory for weak and strong field complexes. Comparison of VB and CFT theories. Factors affecting 10 Dq. Thermodynamic aspects of Crystal fields, Jahn-Teller effect, importance and applications of coordination compounds.

3. **Chemistry of Lanthanides and Actinides:**
   Lanthanide and Actinide contraction and its consequences, Co-ordination behavior of Lanthanides and Actinide complexes. Magnetic and spectroscopic properties, separation of lanthanides.

4. **Chemical Dynamics:**
   Rate of reaction, factors affecting rate of reactions. Zero, first, pseudo first and second order reactions. Half life period, methods for determination of the order of reactions, Collision and Transition state theories and their comparison, Arrhenius equation and concept of activation energy.

5. **Electrochemistry:**
   Conductance, equivalent and molar conductivity, their variation with dilution for weak and strong electrolytes, types of electrodes, SHE, Electrochemical and Galvanic cells, Theory of strong electrolytes. Debye-Huckel theory of activity coefficient, Nernst equation, Ionic equilibria. Fuel cells, concentration cells, Corrosion.

6. **Enthalpy and Entropy:**
   Enthalpy and its changes at constant pressure and temperature. Enthalpy change for different types of reactions, Entropy as a function of temperature and volume. Hess's Law of constant heat summation, Gibbs and Helmoltz functions.

7. **Stereo chemistry of organic compounds :**
   Concept of chirality, optical activity, configuration : Geometrical and Optical isomerism, enantiomerism, distereoisomers, meso compounds, R/S and E/Z

nomenclature, resolution of enantiomers, inversion, retention and racemisation. Conformations of alkanes (ethane, butane), cyclo-hexane and its derivatives,

8. **Reactions Intermediates:**
   Free radicals, carbocations, carbanions, cabenes, benzyne, nitrene.
   Name Reactions: Mechanism of Aldol, Cannizzaro, Perkin, Stobbe, Benzoin, Reformatsky, Knovengel, Baeyer–Villiger, Wittig and Mannich reactions.

9. **Aromaticity and Arenes:**
   Aromaticity, nomenclature and isomerism of aromatic hydrocarbons, Benzene, Alkyl-arenes, Structure of benzene, physical and chemical properties of benzene, Electrophilic substitution reactions, orientation of functional groups,
   Aromatic heterocyclic compounds (pyridine, pyrrole, furan, thiophene)

10. **Polymers and Drugs:**
    Polymers, types and mechanism of polymerization, Natural and synthetic polymers. Drugs (antacids, anti-histamines, analgesics, antipyretics, antibiotics and antifertility).

Part – III Post Graduation Level

1. **Molecular Orbital Theory:**
   Symmetry elements, operations and point groups, mulliken symbols, GMT and character tables, M.O. Theory of hetronuclear di-atomic and polyatomic molecules (AX_2, AX_3 and AX_4).

2. **Organometallic Compounds:**
   Organometallic compounds of Li, Mg, Sn, Fe, Cu and Zn. Structure, bonding and applications; Metal carbonyls: structure and bonding, cage and cluster compounds, organometallic reagents in catalysis and in organic synthesis.
3. **Kinetics and Catalysis:**
   Kinetics of photo-chemical and polymerization reactions, Acid-Base and Enzyme catalysis, ionic reactions, kinetic salt effect, complex reactions.

4. **Electrochemistry:**
   Measurement of EMF, Kohlrausch's Law and its applications, Membrane equilibria, calculation of Δ H, Δ G, Δ S and equilibrium constant from EMF data.

5. **Thermodynamics:**
   Third Law of Thermodynamics and Joule-Thompson's experiment, Maxwell's relation and their applications, Gibbs-Duhem equitation, Fugacity and Activity concept.

6. **Substitutions and Elimination Reactions:**
   SN^1, SN^2, SN^i, E1 and E2 reactions of haloalkanes, Preparation and Chemical reactions of phenols, ethers and epoxides.

7. **Pericyclic Reactions:**
Electrocyclic, Cyclo-addition and Sigmatropic rearrangement, Photo-organic chemistry of alkenes and carbonyl compounds.

8. **Environmental Pollution:**
Air, Water, Soil and heavy metal pollution, photochemical smog, acid rain, Ozone depletion, Green house effect, Global warming and Green chemistry principles.

9. **Spectroscopy:**
Elementary idea of IR, UV, NMR, Raman, ESR and mass spectrometry techniques and structure elucidation of organic compounds.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
PHYSICS

PAPER – II

Part – I Senior Secondary Level

1. **Physical World and Measurement** - Fundamental and derived units, systems of units, dimensional formula and dimensional equations, accuracy and error in measurement.
2. **Description of Motion** - Motion in one dimension, uniformly accelerated motion, motion with uniform velocity/acceleration in two dimensions and relative velocity.
   Vectors - Scalar and vector quantities, unit vector, addition and multiplication.
   Laws of Motion - First, second and third law of motion, impulse, momentum and conservation of linear momentum.
   Friction - Types of friction, laws of friction.
3. **Work, Energy and Power** - Work done by a constant/variable force, work- energy theorem, K.E., P.E., elastic and inelastic collision in one and two dimensions, conservation of energy, conservative and non-conservative forces, power, motion in vertical plane.
4. **Rotational Motion** - Centre of mass, its motion, rotational motion, torque, angular momentum, laws of conservation of angular momentum, centripetal force, circular motion, moment of inertia, theorems of M.I. and rolling motion.
5. **Oscillatory Motion** - Periodic motion, S.H.M. its equation, K.E. and P.E. of S.H.M., simple pendulum and oscillation of a loaded spring.
   Waves - Type of waves, wave equation, speed of a progressive wave, superposition principle, reflection of waves, beats, stationary waves and normal modes and Doppler's effect.
6. **Gravitation**- Universal law of gravitation, variation of g, gravitational potential energy and potential, orbital and escape velocity, planetary motion, Kepler's Law.
7. **Elasticity** - Hooke's law, Young's modulus, bulk modulus and shear modulus of rigidity. Applications of elastic behaviour of matter.
   Surface Tension - Molecular theory of surface tension, excess of pressure inside a drop and soap bubble, angle of contact, capillarity.
   Liquids in Motion - Fluid pressure, Pascal's law, type of flow of liquid, critical velocity, coefficient of viscosity, terminal velocity, Stoke's law, Reynold’s number, Bernoulli's theorem - its applications.
8. **Kinetic Theory of Gases -** Laws for gases, ideal gas equation, assumptions of kinetic theory of gases, pressure exerted by a gas, r.m.s speed of gas molecules, law of equipartition of energy, degree of freedom, specific heats of gases and solids, mean free path.
   Heat and Thermodynamics - Concept of heat and temperature, temperature scales, thermal expansion of solid, liquid and gases, specific heat, change of state, latent heat, calorimetry, zeroth & first law of thermodynamics, thermodynamic process, second law of thermodynamics, heat engine.
   Radiation - Modes of transmission of heat, thermal conductivity, perfect blackbody, Stefen’s law, Newton's law of cooling, Wein’s displacement law.

9. **Ray Optics and Optical Instruments -** Laws of reflection, reflection by plane and curved mirrors, laws of refraction, total internal refraction - applications, lenses, image formation by lenses, thin lens formula, lens maker formula, power of lens, dispersion by prism, scattering of light, eye, defects of vision, microscopes, telescopes.
   Wave Optics - Interference of light, Young's double slit experiment, diffraction of light, single slit diffraction, resolving power of optical instruments, polarisation of light, law of Malus, polarisation by reflection.
10. **Electrostatics -** Coulomb's law, superposition principle, electric field and potential, dipole, Gauss theorem - its applications, electric lines of force, torque experienced by a dipole in uniform electric field, potential energy of a system of charges, equipotential surfaces.
    Capacitance - Capacity of an isolated spherical conductor, parallel plate capacitor, effect of dielectric on capacitance, series and parallel combinations of capacitors, energy of a capacitor.
    Current Electricity – Drift velocity and mobility, Ohm's law, temperature dependence of resistance, colour code of resistors, series and parallel combination of resistors, resistivity, primary and secondary cells and their combination in series and parallel, Kirchoff's laws, Wheatstone bridge and potentiometer - their applications, electrical energy and power.
11. **Magnetism and Magnetic Effect of Current -** Magnetic lines of force, bar magnet, magnetic moment, torque on a magnetic dipole, magnetic induction, magnetic intensity, permeability, susceptibility & intensity of magnetisation - their relations. Curie law, hysteresis, B-H curve, classification of magnetic materials, magnetic force, motion in the magnetic field, force on current carrying conductor, Biot – Savart's law, magnetic field by a straight conductor & circular current carrying coil, Ampere's circuital law, solenoid, toroid, moving coil galvanometer, ammeter, voltmeter.
    Electromagnetic Induction - Faraday's Law, Lenz's Law, self-induction, mutual induction, electric generators.
    Alternating Current - Mean and rms value of a.c., a.c. circuit containing resistance, inductance and capacitance, series resonant circuit, Q factor, average power in a.c., wattless current, power factor, transformer.
12. **Photoelectric Effect and Matter Waves -** Einstein's photoelectric equation, matter waves, de-Broglie's hypothesis, Davison and Germer's experiment.
    Nuclear Physics and Radioactivity – Nucleus, size, mass defect, binding energy, nuclear fission and fusion, nuclear reactor, radioactivity, laws of disintegration, α, β and γ decays.
    Solids and Semi Conductor Devices - Energy band in solids, semi conductor, p-n junction diodes, special purpose p-n junction diodes, junction transistor, logic gates.
    Electromagnetic Waves and Communication – Displacement current**,** electromagnetic waves, electromagnetic spectrum, elements of a communication system, bandwidth of signals and transmission medium, sky and space wave propagation, need for modulation, production and detection of an AM wave.

Part – II Graduation Level

1. **Mechanics:** Inertial frames, Galilean transformation, non-inertial frames, fictitious forces, rotating coordinate systems, Coriolis force and its applications, postulates of special theory of relativity, Lorentz transformations, relativistic addition of velocities, length contraction, time dilation, variation of mass with velocity, mass-energy relation.

System of particles, concept of reduced mass, single stage and multistage rocket, analysis of collision in centre of mass frame, equation of motion of a rotating body, inertial coefficients, kinetic energy of rotation and idea of principal axes, Euler's equations.

Theory of bending of beams and cantilever, torsion of a cylinder, bending moments and shearing forces.

2. **Waves & Oscillations**: Damped harmonic oscillators, power dissipation, quality factor, driven harmonic oscillator, resonance, transient and steady state, power absorption, motion of two coupled oscillators, normal modes.

   Waves in media, speed of longitudinal waves in a fluid, energy density and energy transmission in waves, group velocity and phase velocity.

   Noise and music: the human ear and its responses: limits of human audibility, intensity and loudness, bel and decibel, the musical scale, temperament and musical instruments, the acoustics of halls, reverberation period.

3. **Electromagnetism**: Concept of multipoles, electrostatic energy of uniformly charged sphere, classical radius of an electron.

   Electric Field in Matter: atomic and molecular dipoles, dielectrics, polarisability, polarisation vector, electric displacement, electrostatic energy of charge distribution in dielectric, Lorentz local field and Clausius-Mossotti equation, electrostatic field – conductors in electric field, boundary conditions for potential and field at dielectric surface, uniqueness theorem, Poisson's and Laplace's equations in cartesian, cylindrical and spherical polar coordinates.

   Maxwell's equations (integral and differential form). E as an accelerating field, E as deflecting field, CRO.

4. **Thermodynamics and Statistical Physics**: Maxwell velocity distribution, transport phenomenon: coefficients of viscosity, thermal conductivity, diffusion and their interrelation. Clausius- Clapeyron equation, vapor pressure curve, thermodynamic potentials, Maxwell relations and their applications, production of low temperatures, Joule-Thomson expansion and J.T. coefficients for ideal as well as Vander Waals gas, temperature inversion, regenerative cooling, cooling by adiabatic demagnetization, liquid helium, He-I and He-II, super fluidity, Nernst heat theorem.

   Phase space, micro and macro states, thermodynamic probability, relation between entropy and thermodynamic probability. Bose-Einstein statistics and its distribution function, Planck distribution function and radiation formula, Fermi-Diarc statistics and its distribution function.

5 **Electronics and Circuit Analysis**: Four terminal networks, Z, Y and hybrid parameters of any four terminal network, Input, output and mutual impedance for an active four terminal network, various circuits theorems: superposition, Thevenin, Norton, reciprocity, maximum power transfer theorems.

Rectifiers- half wave, full wave and bridge rectifier, calculation of ripple factor, efficiency and regulation, filters- series inductor, shunt capacitor, L-section and π-section filters, voltage regulation by Zener diode.

Analysis of transistor amplifiers using hybrid parameters and its gain-frequency response, basic idea of R-C coupled amplifiers.

Transistor biasing - stability factors, various types of bias circuits for thermal bias stability, amplifier with feedback: positive and negative feedback, voltage and current feedback circuits.

Oscillators: criteria for self excited and self sustained oscillators, basic transistor oscillator, circuit and its analysis; Colpitts, Hartley oscillators and R-C oscillators.

Junction field effect transistor (JFET), biasing and volt-ampere relations.

6 **Optics**: Interference of light in thin films, Newton rings, Michelson interferometer, Fabry Perot interferometer. Fresnel diffraction: half periods zones, circular aperture, circular disc, straight edge, Fraunhoffer diffraction: double slit, plane diffraction grating.

Lasers and Holography: Spontaneous and stimulated emission, Einstein's A and B coefficients, condition for amplification, population inversion, methods of optical pumping, energy level schemes of He-Ne and Ruby lasers, working of a laser source, holography.

7 **Quantum Mechanics and Spectroscopy**: Failure of classical physics, uncertainty principle and its consequences, application of uncertainty principle.

Schrodinger equation – time dependent and time independent form, probability current density, operators in quantum mechanics, expectation values of dynamical variables, postulates of quantum mechanics, Dirac notation, eigen function and eigen value, degeneracy, commutation relations, Ehrenfest theorem.

Time independent Schrodinger equation and stationary state solution, particle in one dimensional box, extension of results for three dimensional case and degeneracy of levels, potential step and rectangular potential barrier, reflection and transmission coefficient, square well potential problem. bound state problems - particle in one dimensional infinite potential well and finite depth potential well, simple harmonic oscillator (one dimensional), Schrodinger equation for a spherically symmetric potential, orbital angular momentum and its quantisation, spherical harmonics, energy levels of H-atom.

Elementary Spectroscopy: Quantum features of one electron atoms, Frank-Hertz experiment, Stern and Gerlach experiment, spin and magnetic moment, spin-orbit coupling and fine structure. atoms in a magnetic field, Zeeman effect, molecular spectroscopy, rigid rotator, diatomic molecules, rotational spectra, vibrational spectra, vibrational-rotational spectra, raman effect.

8. **Nuclear Physics**: Quadrupole moment and nuclear ellipticity, nuclear spin, parity and orbital angular momentum, proton-neutron hypothesis, the nuclear potential, nuclear forces, semi empirical mass formula, the liquid drop model.

Accelerators- linear accelerators, cyclotron, synchrocyclotron, betatron, electron synchrotron, proton synchrotron.

Particle and Radiation Detectors: ionisation chamber, region of multiplicative operation, proportional counter, Geiger-Muller counter, scintillation counter, cloud chamber.

9. **Solid State Physics**: Crystal binding and crystal structure: Bravis lattice, Miller indices, crystal structure, X-ray diffraction and Bragg's law, Laue equation of X-ray diffraction.

Thermal Properties of the Solids: Phonons, various theories of lattice specific heat of solids: Einstein model, Debye model, electronic contribution to the specific heat of metals, thermal conductivity of the lattice, band theory of solids: wave function in a periodic lattice and Bloch theorem, Kronig-Penney model, effective mass, momentum, crystal momentum.

Electrical Conductivity: Sommerfield theory of electrical conductivity, Mathiessen's rule, thermal conductivity and Wiedemann-Franz's Law, the Hall effect.

Superconductivity: experimental features of superconductivity, the isotope effect, special features of superconducting materials, flux quantisation, BCS theory of superconductivity: cooper pairs.

Part – III Post Graduation Level

1. **Mathematical Physics and Classical Mechanics**: Vector calculus, tensors, matrices, Fourier series, Fourier and Laplace transforms, special functions, complex analysis, probability theory, basic group theory, constraints, D' Alembert's Principle, Langrangian and Hamiltonian formalism, calculus of variations, canonical transformation, Poisson bracket and Poisson theorem, Hamiltonian Principle and Jacobi equation.
2. **Electricity and Magnetism**: Scalar and vector potentials, gauge invariance, electromagnetic waves in free space, dielectric and conductors, radiation from moving charge and radiation from dipole, concepts of wave guides, retarded potentials, Lienard-Wiechart potential, bremsstrahlung and synchrotron radiation.
3. **Thermodynamics and Statistical Physics**: Canonical and grand canonical ensemble, Bose-Einstein condensation, Gibb's paradox, Liouvilles' theorem, first and second order phase transitions, Landau theory of phase transitions. Langevin theory, Fokker-Plank equation, random walk and brownian motion.
4. **Quantum Physics**: Elementary theory of scattering in a central potential, partial wave and phase-shift analysis, identical particle and spin statistics, approximation methods for stationary states, time dependent perturbation, relativistic quantum mechanics, K-G and Dirac equation, semi classical theory of radiation.
5. **Electronics**: Clipping and clamping circuits, multivibrators, operational amplifiers and its applications, half and full adder circuits, K-maps, flip-flops, counters and registers. A/D and D/A convertors, opto-electronic devices.
6. **Atomic, Molecular and Solid State Physics**: Quantum states of an electron in an atom, hydrogen atom spectra, Pauli's Principle, Paschen-Back effect, Stark effect, LS and JJ coupling, hyperfine structure, Frank-Condon principle.
   Semiconductors statistics of pure and impure semi conductors, electrical conductivity and its temperature dependence, recombination mechanisms, photo conductivity, NMR, ESR and Mossbauer effects.
7. **Nuclear and Particle Physics**: Deuteron problem, nuclear shell model, collective model, Interaction of charged particles and electromagnetic waves with matter, meson theory of nuclear force, nuclear scattering: p-p and n-p, Breit- Wigner scattering formula, nuclear reactions, Fermi theory of beta decay, Gamow theory of alpha decay, elementary particles.

Part – IV (Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning)

I. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

- Communication skills and use of various verbal and non verbal classroom communication strategies.
- Teaching models- advance organizer and inquiry training (information processing) Group Investigation (Social Interaction) Non-Directive model (Personal development).
- Preparation and use of teaching-learning material during teaching.
- Cooperative learning.

II. Use of Computers and Information Technology in Teaching Learning

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
MATHEMATICS

PAPER – II

Part– I Senior Secondary Level

1. **Sets, Relations and Functions**:
   Sets and their representations. Different kinds of sets. Sub set, Universal set, Venn diagrams. Operation on Sets. De-Morgan's laws and practical problems based on them. Ordered pair, Cartesian product of sets, relation, domain, co-domain and range of relation, equivalence relation. Function as a special case of relation, domain, co-domain, range of functions, invertible functions, even and odd functions, into, onto and one-to-one functions, special functions (polynomial, trigonometric, exponential, logarithmic, absolute value, greatest integer etc.), sum, difference, product and composition of functions.
2. **Trigonometry**:
   Measuring angles in radians and in degrees, trigonometric functions and their graphs, trigonometric identities. General solution of trigonometric equations. Inverse trigonometric functions (principal value only) and their elementary properties.
3. **Algebra:**
   Quadratic equation with real coefficients, formation of quadratic equation with given roots, relation between roots and coefficients. Symmetric functions of roots. Linear and quadratic inequations. Algebra of complex numbers, addition, multiplication, conjugation, polar representation, properties of modulus and principal argument, triangle inequalities, cube roots of unity, geometric interpretations of complex number. Arithmetic and geometric progressions, n^{th} term, sum of n terms, arithmetic and geometric means, infinite geometric series, Arithmetico-Geometric Progression. Sum of the first 'n' natural numbers, sums of squares and cubes of the first 'n' natural numbers, Fundamental principle of counting. Factorial n (n!). Permutations and Combinations and simple applications. Exponential and logarithmic series, Binomial theorem, simple applications, general term and middle term, properties of binomial coefficients.
4. **Matrices and Determinants**:
   Matrices, algebra of matrices, type of matrices, transpose of a matrix, symmetric and skew symmetric matrices. Operations on matrices: Addition, multiplication and multiplication with a scalar. Determinants of order two and three, properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle, Adjoint and inverse of a square matrix, inverse of matrix using elementary transformations, Test of consistency and solution of simultaneous linear equations in two and three variables using determinants and matrices.

5. **Two-Dimensional Geometry**:

Cartesian coordinates, distance between two points, section formulae, shift of origin. Equation of a straight line in various forms, slop of line, angle between two lines, distance of a point from a line, lines through the point of intersection of two given lines, equation of the bisector of the angle between two lines, concurrency of lines. Centroid, orthocenter, incentre and circumcenter of a triangle. Equation of a circle in various forms, equation of tangent, normal and chord of a circle. Parametric equations of a circle, intersection of a circle with a straight line/ circle, equation of a circle through the points of intersection of two circles and those of a circle and a straight line. Equation of a parabola, ellipse, hyperbola and their foci, directrices and eccentricity, parametric equations, equations of tangent and normal. Problems based on locus.

General equation of second degree. Nature of conic. Polar equation of a conic, polar equation of tangent, normal, asymptotes, chord of contact, auxiliary circle, director circle of a conic and related problems.

6. **Calculus**:

Limits, continuity and differentiability. Differentiation of the sum, difference, product and quotient of two functions. Chain rule, derivative of composite functions, derivatives of trigonometrical, inverse trigonometric functions, derivative of implicit functions. Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second and third order derivatives. Rolle's and Lagrange's Mean value Theorems, Applications of derivatives: Rate of change of quantities, monotonic increasing and decreasing functions, Maxima and minima of functions of one variable, tangent and normal. Integral as an anti-derivative, Integration of a variety of functions by substitution, by partial fractions and integration by parts. Integration of rational and irrational functions. Definite integral and their properties, application of definite integrals in finding the area under simple curves, especially lines, arcs of circles/parabolas/ellipses/hyperbola, area between the said curves (the region should be clearly identifiable).

7. **Vector Algebra**:

Vectors and scalars, magnitude and direction of a vector. Direction cosines/ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors etc.), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors. Scalar and Vector triple product and problems related to them.

8. **Statistics and Probability**:

Measures of dispersion: Standard deviation, variance and mean deviation for grouped and ungrouped data. Probability: Probability of an event, addition and multiplication theorems of probability, conditional probability, Bayes' theorem, total probability, probability distribution of a random variate, Bernoulli trials and binomial distribution.

Part– II Graduation Level

1. **Abstract Algebra**:
   Definition and example of groups. General properties of groups, Order of an element of a group. Cyclic group, Permutations: Even and Odd permutations. Groups of permutations. Cyclic permutation, Alternating group. Subgroups, Cosets, Lagrange's theorem, Normal subgroup, Conjugate elements, conjugate complexes, Centre of a group, Simple group, Normaliser of an element and of a complex. Quotient Groups. Group homomorphism and isomorphism with elementary basic properties, fundamental theorem of homomorphism in groups. Isomorphism theorems of groups. Cayley's theorem. Ring Theory: Introduction to Rings, Zero divisors, Division ring, Integral Domain and Fields, their examples and properties. Ideals of a ring, Quotient rings.
2. **Complex Analysis**:
   Functions, Limits, Continuity and Differentiability of complex functions. The extended plane and its spherical representation, Concept of an analytic function, Cartesian and Polar form of Cauchy-Riemann equations. Harmonic functions, Construction of an analytic function, Conformal mapping, Bilinear transformation and its properties, Fixed points, Cross ratio, Inverse point.
3. **Advance Calculus**:
   Polar Co-ordinates. Angle between radius vector and the tangent. Angle between two curves in polar form. Length of polar tangent, sub-tangent, normal and subnormal, Pedal equation of a curve, Derivatives of an arc. Curvature, various formulae, Centre of curvature and chord of curvature and related problems. Partial differentiation, Euler's theorem on homogeneous functions, Chain rule of partial differentiation, total differentiation. Maxima and Minima of functions of two independent variables and of three variables connected by a relation, Lagrange's Method of undetermined multipliers. Asymptotes, double points, curve tracing. Envelopes and evolutes. Theory of Beta and Gamma functions. Differentiation and integration under the sign of integration. Double integral, Change of order of integration and changing into polar co-ordinates, applications in finding areas, triple integral, application to find volume. Dirichlet's integral. Quadrature and Rectification. Volume and Surface area of solids of revolution.
4. **Ordinary and Partial Differential Equations**:
   Order and degree of differential equation. Ordinary differential equations of first order and first degree, differential equations of first order but not of first degree, Clairaut's equations, general and singular solutions, linear differential equations with constant coefficients, homogeneous differential equation, second order linear differential equations, simultaneous linear differential equations of first order. Partial differential equations of the first order. Linear partial differential equation with constant coefficient.

5. **Vector Calculus**:
   Vector differentiation: Curl, Gradient and Divergence, identities involving these operators and related problems. Vector integration: line and surface integral, Problems based on Stoke, Green and Gauss theorems.
6. **Three-Dimensional Geometry:**
   Distance between two points, direction cosines and direction ratios, equation of a straight line in space, various form, skew lines, shortest distance between two lines, equation of a plane, various form, distance of a point from a plane and a line, Cartesian and vector equation of a plane and a line. Angle between (i) two lines, (ii) two planes (iii) a line and a plane. Coplanar lines.
   Sphere: Equation of a sphere in various forms, tangent plane, Pole and Polar, Intersection of two spheres, Orthogonal spheres. Cone, Enveloping cone, Tangent plane, Reciprocal cone, three mutually Perpendicular generators, right circular cone. Cylinder, right circular cylinder, Enveloping cylinder.
7. **Statics and Dynamics**:
   Composition and resolution of co-planer forces, component of a force in two given directions, equilibrium of concurrent forces, parallel forces and moment, Equilibrium of a body under several coplaner forces. Friction, Virtual work and common catenary.
   Velocity and acceleration, Velocities and accelerations along radial and transverse directions, and along tangential and normal directions, simple linear motion under constant acceleration, Laws of motion, projectile, Simple Harmonic Motion, Rectilinear motion under variable laws. Hook's law, linear motion in resisting medium, constrained motion on smooth plane curves (circular and cycloidal motion).

Part– III Post Graduation Level

1. **Real Analysis:**
   Real numbers as a complete ordered field, linear sets, lower and upper bounds, limit points, closed and open sets. Real sequence, limit and convergence of a sequence, convergence of series, tests for convergence of a series, absolute convergence, uniform convergence of sequence and series of functions.
2. **Linear Algebra and Metric Spaces**:
   Definition and examples of a vector space, subspace of a vector space. Linear combination, Linear dependence and independence of vectors. Direct product of vector spaces and internal direct sums of subspaces. Bases and dimension of a finitely generated spaces, Quotient space, Isomorphism, Linear transformation (Homomorphism), Rank and nullity of linear transformation. The characteristic equation of a matrix, Eigen values and Eigen vectors, Cayley-Hamilton theorem. Definition and example of a metric space, Diameter of a set, Bounded set, Open sphere, Interior point and Interior of a set, Derived and Closure of set, Closed set, Closed Sphere, Properties of Open and Closed sets, Boundary point of set, Convergent and Cauchy sequences, complete metric space, Cantor's Intersection theorem. Bolzano-

Weierstrass theorem, Heine-Borel theorem, Compactness, connectedness, Cantor's ternary set.

3. **Integral Transforms and Special Function**:

   Laplace transform: Definition and its properties. Rules of manipulations, Laplace theorems of derivatives and integrals, Properties of Inverse Laplace transforms, Convolution theorem, Complex inversion formulas, applications to the solutions of ordinary differential equations with constant and variable coefficients. Fourier Transform: Definition and properties of Fourier sine, cosine and complex transforms. Convolution theorem. Legendre's polynomial/ Functions: Legendre's differential equation and associated Legendre's differential equations, Simple properties of Legendre's functions of first and second kind. Bessel functions, Generating function, Integral formulae, Recurrence relations, Addition formula and other properties of Bessel functions.

4. **Differential Geometry and Tensors:**

   Differential Geometry: Curves in Space- Space curves, Contact of a curve and a surface. Definition of unit tangent vector, tangent line, Principal Normal, Binormal and Normal plane.

   Tensors: Transformation of coordinates, Contravariant, covariant and mixed tensors, second order tensors, Higher order tensors. Addition, subtraction and multiplication of tensors, Contraction, Quotient Law, symmetric and skew symmetric tensors: Conjugate symmetric tensors of the second order, Fundamental tensor, Associated tensors, Christoffel symbols, Transformation law of Christoffel symbols, Covariant differentiation of vectors and tensors.

5. **Numerical Analysis**:

   Difference operators and factorial notation, Differences of polynomial, Newton’s formulae for forward and backward interpolations. Divided differences, relation between divided differences and Simple difference. Newton’s general interpolation formulae, Lagrange interpolation formula. Central differences, Gauss, Stirling and Bessel interpolation formulae. Numerical Differentiation. Numerical integration, Newton-Cotes quadrature formula, Gauss’s, quadrature formulae, Trapezoidal, Simpson’s and Weddle’s rules. Estimation of errors, Transcendental and polynomial equations, bisection method, iteration method, Regula Falsi method, Newton Raphson method.

6. **Optimization Technique**:

   Convex sets and their properties. Simplex Method. Concepts of duality in linear programming. Framing of dual programming. Assignment problems, Transportation problems. Theory of Games: Competitive strategies, minimax and maximin criteria, two-person zero-sum games with and without saddle point.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
BIOLOGY

PAPER - II

Part – I Senior Secondary Level

1. **Biology in Ancient India:** Contribution of various Indian scientists.
2. **Taxonomy**:
    - Biological system of classification and branches of taxonomy. Concept of species and taxonomical hierarchy.
    - Binomial nomenclature.
    - Taxonomic keys, Flora, Monograph and Herbarium.
    - Classification of living organisms: Five Kingdom System and The Three Domain System.
3. **Structural Organisation in Animals and Plants**:
    - Animal tissues: Types, Origin, Location, Structure and Functions.
    - Plant tissues: Types and Functions Anatomy of Monocot and Dicot root, stem and leaves.
    - Structural organisation of higher plants, Modifications of Roots, Stems and Leaves, Types of fruits.
4. **Plant Physiology:**
    - Plant Water Relations, Phloem Transport and Ascent of Sap.
    - Photosynthesis.
    - Respiration and Photorespiration.
    - Mineral nutrition.
    - Plant movements.
    - Nitrogen and lipid metabolism.
    - Growth and development.
5. **Animal Physiology:**
    - Digestion and absorption.
    - Breathing and respiration.
    - Body fluids and circulation.
    - Excretory products and their elimination.
    - Locomotion and movement.
    - Neural control and coordination.

- Chemical coordination and regulation.
- Reproduction.

6. **Genetics:**
    - Mendelian Inheritance and its exceptions. Gene interactions.
    - Sex determination in Plants and Human beings
    - Linkage and crossing over
7. **Biology in Human Welfare:**
    - Economic importance of Protozoa, Helminths, Insects and Molluscs.
    - Plant Utilisation- Cereals and Millets, Fibre yielding plants, Vegetable oils, Spices and Medicinal plants with special reference to the state of Rajasthan.
    - Microbes in Human Welfare.
    - Basic Concepts of Immunology, Vaccines, Pathogens, Parasites.
8. **Ecology:**
    - Ecosystems - structure and functions, Energy flow, Ecological pyramids, Productivity, Decomposition, Ecological adaptations, Succession. Population and Community Ecology.

PART II - GRADUATION LEVEL

1. **Cell Structure and Functions:**
    - Concept of cell theory; Structure of Prokayotic and Eukaryotic cell; Plant and Animal cell.
    - Structure, properties and functions of Cell envelopes, Cell membrane and Cell wall.
    - Cell organelles- Structure and Functions
    - Chemical constituents of living cells: Biomolecules - Structure and functions of proteins, carbohydrates, lipids, nucleic acids. Enzymes
    - Cell division and cell cycle; Apoptosis (Programmed Cell Death).
2. **Taxonomy:**
    - Levels of Organization, Symmetry, Coelom and Metamerism in animals.
    - Salient features and classification of non chordata and chordata upto classes with examples.
    - Salient features and classification of plants (major groups upto class).
    - Semi Technical Description of a flower, floral formula and floral diagram.

3. **Structure (External and Internal), Reproduction and Life cycle of the following-**
    - *Amoeba, Obelia, Taenia, Ascaris, Pheretima, Periplanata, Rana* and *Rabbit*.

4. **Structure, Reproduction and Life cycle of the following:**
    - Algae, Fungi, Bryophytes, Pteridophytes, and Gymnosperms.

5. **Developmental Biology:**
    - Gametogenesis, Spermatogenesis and Oogenesis.
    - Fertilization, Cleavage, Blastula, Gastrula-Morphogenetic movement, Fate maps, Embryonic induction.
    - Metamorphosis in frog.
    - Regeneration.
    - Extra-embryonic membranes in chick.
    - Placenta in mammals.
    - Endocrine control of ovulation, pregnancy, parturition and lactation.

6. **Reproduction in Higher Plants:**
    - Vegetative Propagation in plants.
    - Structure and function of flower in reference to sexual reproduction.
    - Microsporogenesis, Megasporogenesis, male and female gametophyte, Pollination, Fertilisation, Embryogenesis, Endosperm formation. Seed. Apomixis and Polyembryony.
7. **Ethology:**
    - **Types of Animal Behavior:** Feeding, Learning, Social behaviour in Honey-bee, Termite, Monkeys and Lions, Parental care in animals (Amphibians, fishes and Primates).

8. **Biostatistics and Bioinformatics:**
    - Mean, Mode, Median, Standard deviation.
    - Basic Knowledge of Bioinformatic Web Portals.
    - Basic Knowledge of Biological and Sequence Database.

Part – III Post Graduation Level

1. **Environmental Biology:**
    - Environmental Issues: Pollution, Green House Gases, Global Warming, Ozone Depletion, Deforestation, Soil Degradation.
    - Bio remediation, Waste water treatment, Solid waste management, Disposal of Bio medical waste.

2. **Biotechnology and its Applications:**
    - Microbial Culture: Nutritional Requirements & Culture Media, Sterilisation methods & Pure Culture Techniques.
    - r DNA technology.
    - Application of r DNA technology: DNA Finger printing, transgenic organisms, Gene therapy, Therapeutic Agents/Molecules- Monoclonal, Anti Bodies, Insulin, Growth Hormones.
    - Tissue Culture and its application: Plant and Animals
3. **Molecular Biology:**
    - Central Dogma of molecular Biology.
    - Chromosome - Structure & Organisation.
    - Gene Regulation in Eukaryotes and Prokaryotes.
4. **Tools & Techniques: Basic Concepts:**
    - Microscopy-Light and Electron microscopy.
    - Centrifugation
    - Electrophoresis
    - ELISA
    - Chromatography
    - Spectroscopy
    - In situ Localisation Techniques: FISH, GISH
    - DNA Sequencing
5. **Biogeography and Wild Life Conservation**:
    - Major terrestrial Biomes. Biogeographical zones of India, Endemism, Hot spots, Plant distribution with special reference to Rajasthan. Wild life conservation/Management Strategies. Concept of Protected areas. Biosphere reserves of India. Wild life sanctuaries, National Parks, Wetlands and Sacred grooves with special reference to Rajasthan.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

COMMERCE
PAPER – II

Part I: Senior Secondary Level

- Book-keeping: accounting Concepts, conventions, Accounting Process- Journalising transactions, subsidiary books.
- Trial Balance including Rectification of Errors, Capital and revenue items.
- Preparation of Final Accounts (for non-Corporate entities).
- Partnership accounts: General, admission, retirement & deaths, dissolution.
- Company Accounts: issue of shares, redemption of shares and debentures.
- Applications of computers in accounting.
- Analysis of Financial statements: tools of financial analysis.
- Business- Concept, Classification, Starting a business, Private and Public Sector Enterprises, e-Business and e-commerce.
- Management- Concept, Nature, Principles. Functions-planning, organising, Staffing directing and controlling.
- Marketing - Meaning, functions, Marketing management-philosophies, Marketing mix.
- Financial Management- Meaning, Objectives. Financial Decisions, Capital Structure- factors affecting the choice of Capital Structure.
- Statistics for economics- measures of central tendency, measures of dispersion and index numbers.
- Economic development-concept and new approaches, sustainable development, rural development, key issues and government policies, human development index -various approaches.
- Unemployment-types, trends, problems and policies.
- 1991 crisis, economic reforms since 1991- need and main features, liberalization, globalization and privatization and their effects on Indian economy.

Part II: Graduate level.

- Ratio analysis: liquidity solvency, Activity, Profitability.
- Cash flow statement.
- Cost accounting: meaning, elements of cost.
- Marginal Costing and Cost volume Profit analysis.
- Auditing, meaning, objectives, audit programme.
- Budgeting- Meaning, Types of Budget, Budget Committee, Budget Centre.
- The Indian Contract Act, 1872 (Section 1-36 and 56).
- Consumer Protection Act, 2019.

- Business Environment- Corporate Social Responsibility and Business ethics.
- Entrepreneurship- Concept, Role, Types. Entrepreneurs from Rajasthan.
- Human Resource Management- Meaning and Functions, Recruitment and Selection.
- Economic environment-meaning, types and factors affecting economic environment.
- Basic features and changing dimensions of Indian economy.
- Industrialization-importance, Make in India, Startups, MSME and FDI.
- Foreign trade of India- volume, composition, direction and export promotion measures.
- National income definition, concepts, measurement, distribution and economic welfare.

Part III: Post Graduation Level

- Management Accounting: meaning, objectives, Cost of Capital, Leverage Analysis.
- Working Capital Management- Meaning, Types, Factors Affecting working Capital, Operating Cycle Approach.
- Business statistics: - Theoretical Framework of Sampling, Basics of Probability- addition, Multiplication and Conditional.
- Indian Epics and Management - Bhagwad Gita and Kautilaya's Arthshastra.
- Business Research Method - Meaning and Objectives of Research, Types of Research.
- Conflict Management and Stress management.
- Capital Market- Primary Market and Secondary Market, Stock Exchange: BSE and NSE, SEBI.
- Utility analysis, demand analysis and demand forecasting – techniques.
- Public finance- central budget, deficit financing and fiscal management - FRBM (Fiscal Responsibility and Budget Management).
- Indian banking system- central and commercial banking, banking sector reforms, Net and mobile banking and UPI mechanism.
- Monetary and fiscal policies - objectives, contradictions and tools.

Part – IV (Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning)

I. Pedagogy and Teaching Learning Material (Instructional Strategies for Adolescent Learner)

- Communication skills and use of various verbal and non verbal classroom communication strategies.
- Teaching models- advance organizer and inquiry training (information processing) Group Investigation (Social Interaction) Non-Directive model (Personal development).
- Preparation and use of teaching-learning material during teaching.
- Cooperative learning.

II. Use of Computers and Information Technology in Teaching Learning

- Concept of ICT and Digital learning
- E-learning and Virtual Classroom.
- Technology integration in teaching-learning and assessment.

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For the competitive examination for the post of **School Lecturer: -**

The question paper will carry maximum **300 marks**.

1. Duration of question paper will be **Three Hours**.
2. The question paper will carry **150 questions** of multiple choices.
3. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.
4. Paper shall include following subjects: -
   (i) Knowledge of Subject Concerned: Senior Secondary Level
   (ii) Knowledge of Subject Concerned: Graduation Level.
   (iii) Knowledge of Subject Concerned: Post Graduation Level.
   (iv) Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR COMPETITVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

DRAWING

PAPER – II

Part I: Senior Secondary Level

1. **Knowledge of Art and its Development:**
   - Ancient Indian Literature on Art and Craft (specially Painting and Sculpture).
   - Interrelation of Art with Nature, Society and Religion.
   - Elements of Art & Principles of Composition (Indian and Western Concept).
   - Drawing and Rendering in Art.
   - Folk Art & Crafts of Rajasthan - Phad, Kawad, Puppetry, Terracotta, Mandana, Blue Pottery and Traditional Block Printing.
   - Medium, Tool & Techniques of Painting.
2. **Indian Painting- Prehistoric to Company School:**
   - Prehistoric, Early Buddhist Art, Pal and Jain (Apbhransh)
   - Indian Miniature School of Paintings - Mughal, Rajasthani, Pahari, Deccani
   - Company School and Raja Ravi Verma
3. **Indian Renaissance to Modern Era:**
   - Bengal School and their Artists- Abanindranath Tagore, Gaganendranath Tagore, Rabindranath Tagore, Nandlal Bose, Binod Bihari Mukherjee, Kshitindranath Majumdar, A.R. Chugtai, Asit Kumar Haldar, Sharda Charan Ukil, Jamini Roy, Amrita Shergil.
   - Modernism in India- Artistic Groups and their Artists
     i. Kolkata Group.
     ii. Progressive Artists Group (Bombay)
     iii. Delhi Shilpi Chakra
     iv. Chola Mandal (Chennai)
     v. 1890 Group

Part II: Graduation Level

1. **History of Indian Architecture and Sculpture.**
   - Indus Valley Civilization.
   - Sanchi, Bharhut, Amravati, Karle, Bhaja, Mathura, Gandhar.
   - Ellora, Elephanta, Bagh, Badami, Mahabalipuram, Udaigiri (Vidisha), Devgarh.
   - Konark, Khajuraho, Meenakshi Temple.

2. **Temples Architecture and Sculpture of Rajasthan –**
   Harshnath (Sikar), Kiradu (Barmer), Osian (Jodhpur), Badoli (Kota), Dilwara (Mt. Abu, Sirohi), Ranakpur (Pali), Abhaneri (Dausa), Ambika Temple (Jagat), Eklingnath and Sahastrabahu Temple (Nagda) Udaipur.
3. **Prominent Artists of India** -
   K.K. Hebbar, N.S. Bendre, J. Swaminathan, K.G. Subramanian, Akbar Padmasee, Ganesh Pyne, Tyeb Mehta, Jogen Chowdhury, G.R. Santosh, Rameshwar Broota, Vivan Sundaram, Anupam Sud, Somnath Hore, Bhupen Khakhar, Ramkumar, Krishen Khanna, A. Ramchandran, Anjolie Ela Menon, Arpana Caur, Gogi Saroj Pal.
4. **Prominent Sculptors of India-**
   Devi Prasad Roy Chowdhury, Shanko Chaudhari, Dhanraj Bhagat, Ram Kinkar Baij, Chintamani Kar, Mrinalini Mukherjee, Gopi Chand Mishra, Pradosh Das Gupta, Ram V. Sutar, Nandagopal and Nagji Patel.
5. **Prominent Artists of Rajasthan-**
   Ramgopal Vijayvargiya, Bhawani Charan Gui, Bhoor Singh Shekhawat, Goverdhanlal Joshi, Devkinandan Sharma, Kripal Singh Shekhawat, Parmanand Choyal, Dwarka Prasad Sharma, Suresh Sharma, Ram Jaiswal, Rameshwar Singh, Jyoti Swaroop, Arjun Prajapat, Usha Rani Hooja.

Part III: Post Graduation Level

1. **Indian Aesthetics:**
   Rasa Theory (Bharat Muni to Abhinava Gupta).
2. **Western Art:**
   - Egyptian Art, Greek Art
   - Byzantine Art and Gothic Art
   - Renaissance Period and their Artists- Masaccio, Sandro Botticelli, Leonardo Da Vinci, Raphel, Titian, Tintoretto, El Greco.
   - Baroque and their Artists- Caravaggio, Nicholas Poussin, Peter Paul Rubens, Rembrandt
3. **Western Modern Art:**
   - Romanticism to Realism and their Artists- Goya, Gericault, Delacroix, Turner, Daumier, Courbet
   - Impressionism - Manet, Monet, Sisley, Pissarro, Degas
   - Post Impressionism – Van Gogh, Gauguin, Cezanne,
   - Fauvism and Henri Matisse
   - Cubism (Pablo Picasso, George Braque, Juan Gris)
   - Expressionism (Edvard Munch, Kirchner, Wassily Kandinsky, Franz Marc)
   - Dadaism and Surrealism (Marcel Duchamp, Salvador Dali)
   - Abstract Expressionism and their Artists- Paul Klee, Joan Miro, Jackson Pollock, Mark Rothko, Franz Kline.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)

MUSIC

PAPER – II

खण्ड– प्रथम (उच्च माध्यमिक स्तर)

- **पारिभाषिक शब्दावलीः** नाद (जाति एवं गुण), श्रुति, स्वर, सप्तक, ग्राम, मूर्छना, थाट, राग, राग लक्षण, राग जाति, ताल (ताल के दस प्राण), मात्रा, लय (प्रकार), तान (प्रकार), गमक (प्रकार), काकु, वादी, संवादी, अनुवादी, विवादी, आविर्भाव, तिरोभाव, अल्पत्व–बहुत्व, स्वस्थान, निबद्ध–अनिबद्ध गान, गीत, गान्धर्व, गान, मार्गी–देशी संगीत, आतोद्य, कुतप, हारमनी, मेलोडी, कॉर्ड, गत (प्रकार– रजाखानी, मसीतखानी), वर्ण, अलंकार, आलाप, कण, मींड, खटका, मुरकी, आंदोलन, सूत, घसीट, झाला (कत्तर, ठोंक), जोड़–आलाप, कृन्तन, जमजमा, उठान, पेशकार, कायदा, रेला, मुखड़ा, मोहरा, लग्गी, लड़ी, गत, परन, तिहाई, नृत्त, नृत्य, नाट्य, अभिनय, तांडव, लास्य।
- **भारतीय संगीत के मूलभूत सिद्धांतः** भातखंडे संगीत पद्धति के प्रमुख नियम, राग समय सिद्धांत, स्वर एवं छंद रचना, ध्वनि शास्त्र सम्बन्धी सिद्धांत, स्वर अंतराल, उपस्वर, स्वर संघात, स्वर सप्तक की चक्रिक एवं संक्रमिक प्रक्रिया, वीणा पर सारणा प्रक्रिया, वीणा के तार पर स्वर स्थापना, कला, सौन्दर्य एवं रस सिद्धांत, गीति–वाणी, कटपयादि एवं 12 चक्रों का अध्ययन। मानव कंठ तथा कान की बनावट।
- **वाद्य अध्ययनः** वीणा, सितार, तानपुरा, सरोद, सारंगी, वायलिन, दिलरुबा, गिटार, बांसुरी, तबला, पखावज वाद्यों का उद्‌गगम, विकास, वर्तमान स्वरुप तथा प्रमुख कलाकार।
  वाद्य संगीत में बनावट, तकनीक एवं प्रस्तुतिकरण के स्तर पर किये गए अभिनव प्रयोगों का अध्ययन। वाद्य वर्गीकरण, वाद्य–वृन्द।
- **शास्त्रीय नृत्य एवं लोक संगीत :** भारत की प्रमुख शास्त्रीय नृत्य शैलियाँ– कथक, भरतनाट्यम, कथकली, ओडिसी, मणिपुरी, कुचिपुड़ी, मोहिनीअट्टम, सत्रिया ।
  नाट्यशास्त्र में वर्णित नृत्य के मूलभूत तत्त्व ।
  राजस्थानी लोक संगीत का गायन–वादन एवं नृत्य पक्ष । संगीताश्रित जातियां एवं समुदायों की जानकारी ।
- राग – दस ठाट के आश्रय रागों का अध्ययन। देस, देसकार, बागेश्री, मालकोंस, वृन्दावनी सारंग, बिहाग, भूपाली ।
  ताल– दादरा, रूपक, तीव्रा, कहरवा, एकताल, चौताल, दीपचंदी, झूमरा, धमार, त्रिताल, तिलवाड़ा, पंजाबी ।

खंड–द्वितीय (स्नातक स्तर)

- भारतीय संगीत का ऐतिहासिक अध्ययनः संगीत की उत्पत्ति, विकास, वैदिक कालीन संगीत का अध्ययन। प्राचीन, मध्य तथा आधुनिक काल में भारतीय संगीत का इतिहास, जाति गायन, ध्रुवा गायन, प्रबंध, रागालाप, रुपकालाप, आलप्ति, गीति–वानी। संगीत रत्नाकर में वर्णित वाग्गेयकार लक्षण, गायक तथा वादकों के गुण–दोष, गायकों के भेद। राग वर्गीकरण का ऐतिहासिक अध्ययन। राग ध्यान तथा राग चित्र ।
- **संगीत पद्यतियों का तुलनात्मक अध्ययनः** भारतीय, पाश्चात्य तथा कर्नाटक संगीत के स्वर सप्तक, स्वर तथा ताल व्यवस्था का तुलनात्मक अध्ययन। हिन्दुस्तानी तथा पाश्चात्य स्वरों की आन्दोलन संख्या तथा सेंट एवं सेवर्ट पद्यति से सप्तक विभाजन। भारतीय तथा पाश्चात्य स्वरलिपि के विकास का एतिहासिक अध्ययन ।

- **गीत शैलियाँ :** हिन्दुस्तानी संगीत की प्रमुख शैलियाँ– ध्रुपद, धमार, ख्याल, टप्पा, चतुरंग, त्रिवट, रागमालिका, सरगम गीत, लक्षण गीत, ठुमरी, दादरा, चैती, कजरी, गजल । वृन्दगान ।
  कर्नाटक संगीत की प्रमुख शैलियाँ– कृति, पदम्, वर्णम, जावली, तिल्लाना, रागतालमालिका।
- **भारतीय संगीत में संस्थागत शिक्षाः** वैदिक काल से वर्तमान तक संगीत शिक्षा का स्वरुप। संगीत में गायन, तंत्री वाद्य तथा अवनद्ध वाद्यों के प्रमुख घराने।
- **संगीतज्ञों का जीवन वृत्त और योगदान–** कर्नाटक संगीत की त्रिमूर्ति, तानसेन, मीराबाई, महाराणा कुम्भा, राजा चक्रधरसिंह, बालकृष्णबुआ इचलकरंजीकर, विष्णु नारायण भातखण्डे, विष्णु दिगंबर पलुस्कर, अल्लादिया खां, फैयाज खान, बडे गुलामअली खान, अब्दुल करीम खान, कुमार गंधर्व, ओमकारनाथ ठाकुर, मल्लिकार्जुन मंसूर, भीमसेन जोशी, जसराज, किशोरी अमोनकर, गिरिजा देवी, अमीर खां, विनायकराव पटवर्धन, अलाउद्दीन खां, अलीअकबर खां, निखिल बनर्जी, विलायत खां, बिस्मिल्लाह खां, रवि शंकर, राम नारायण, अब्दुल हलीम जाफर खां, पन्नालाल घोष, शिव कुमार शर्मा, हरिप्रसाद चौरसिया, असद अली खां, कुदऊ सिंह, कण्ठे महाराज, अनोखेलाल मिश्र, किशन महाराज, सामता प्रसाद, भैया गणपतराव, बिंदादिन महाराज, बिरजू महाराज, आचार्य कैलाश चन्द्रदेव बृहस्पति, लालमणि मिश्र ।
- **राग–** शुद्ध कल्याण, शुद्ध सारंग, केदार, कामोद, हमीर, छायानट, हिंडोल, अल्हैया–बिलावल, दुर्गा, शंकरा, देसी, कालिंगडा, जोगिया, विभास, गुणक्री, जैजैवंती, तिलककामोद, रागेश्री, जोग, जोगकौंस, मियां मल्हार, बहार, जौनपुरी, दरबारी, अडाना, पूरिया, सोहनी, पूरियाधनाश्री, बसंत, परज, श्री, मुल्तानी, सालगवराली, मधुवंती, हंसध्वनि, कलावती, किरवानी, चारुकेशी, आभोगी, सरस्वती।
  ताल– रूद्र, मणि, गजझम्पा, शिखर, मत्त, लक्ष्मी, ब्रह्म।

खंड–तृतीय (स्नातकोत्तर)

- संगीत के विकास में राष्ट्रीय स्तर की राजकीय संस्थायें, संगीत समारोह, पुरस्कार, शासकीय योजनायें, छात्रवृत्तियां ।
- **संगीत ग्रन्थः** नाट्यशास्त्र, नारदीयशिक्षा, दत्तिलम, बृहद्देशी, संगीत मकरंद, भरतभाष्यम, संगीत रत्नाकर, राग तरंगिणी, स्वरमेल कलानिधि, सद्राग चंद्रोदय, राग मंजरी, राग विबोध, संगीत दर्पण, चतुर्दंडीप्रकाशिका, संगीत पारिजात ।
- प्रमुख रागांग एवं रागों का अध्ययन :

अंग	राग	अंग	राग
कान्हड़ा	नायकी, कौंसी	तोड़ी	गुर्जरी, बिलासखानी
सारंग	मधुमाद, मियां की सारंग	बिलावल	देवगिरी, यमनी
बिहाग	बिहागडा, मारू बिहाग	खमाज	झिंझोटी, तिलंग
कल्याण	पूरियाकल्याण, श्याम कल्याण	कौंस	चंद्रकौंस, मधुकौंस
मल्हार	गौड़मल्हार, मेघ मल्हार	भैरव	बैरागी, अहीर भैरव
धनाश्री	पटदीप, भीमपलासी	नट	नट भैरव, नट बिहाग

खंड– चतुर्थ (शिक्षण–शास्त्र, शिक्षण– अधिगम सामग्री, शिक्षण–अधिगम में संगणक एवं सूचना प्रौद्योगिकी का प्रयोग)

➢ शिक्षण शास्त्र एवं शिक्षण अधिगम सामग्री (किशोर अधिगमकर्त्ता हेतु अनुदेशनात्मक रणनीतियाँ)

- संप्रेषण कौशल एवं विविध शाब्दिक एवं अशाब्दिक कक्षा–कक्ष संप्रेषण रणनीतियों का प्रयोग/उपयोग
- शिक्षण प्रतिमान– अग्रिम संगठक प्रतिमान एवं पृच्छा प्रशिक्षण प्रतिमान (सूचना प्रसंस्करण), सामूहिक अन्वेषण (सामाजिक अंतः क्रिया) गैर निर्देशात्मक प्रतिमान (व्यक्तिगत विकास)

- शिक्षण के दौरान शिक्षण–अधिगम सामग्री का निर्माण एवं प्रयोग
- सहकारी अधिगम

➢ **शिक्षण अधिगम में संगणक एवं सूचना प्रौद्योगिकी का उपयोग**

- आई.सी. टी. (सूचना एवं संचार प्रौद्योगिकी) का संप्रत्यय एवं डिजिटल अधिगम
- ई– अधिगम एवं वर्चुअल (आभासी) कक्षा–कक्ष
- शिक्षण–अधिगम एवं आकलन में प्रौद्योगिकी का एकीकरण

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For the competitive examination for the post of **School Lecturer: -**
The question paper will carry maximum **300 marks**.

1. Duration of question paper will be **Three Hours**.
2. The question paper will carry **150 questions** of multiple choices.
3. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.
4. Paper shall include following subjects: -
   (i) Knowledge of Subject Concerned: Senior Secondary Level
   (ii) Knowledge of Subject Concerned: Graduation Level.
   (iii) Knowledge of Subject Concerned: Post Graduation Level.
   (iv) Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF COACH (SCHOOL EDUCATION)

PAPER – I

General Awareness and General Studies

- **History of Rajasthan and Indian History with special emphasis on Indian National Movement**
  - Freedom Struggle of 1857.
  - Growth of Nationalism (1858-1919).
  - Growth of mass Nationalism (1919-1942).
  - Revolutionary activities.
  - Towards Freedom and Partition.
  - Social and Religious Renaissance in 19^{th} and 20^{th} Century.
  - Prominent Leaders of 19^{th} and 20^{th} Century with special reference to V.D. Savarkar, Bankim Chandra, Lal, Bal, Pal, Chandra Shekhar Azad, Bhagat Singh, Sukhdev, Ras Behari Bose, Subhash Chandra Bose.
  - National movement with special reference to Mahatma Gandhi, Jawahar Lal Nehru, Vallabhbhai Patel, Maulana Azad and B.R. Ambedkar.
  - **History of Rajasthan**
    Ancient Culture & Civilization of Rajasthan- Kalibangan, Ahar, Ganeshwar, Bairath.
  - **History of Rajasthan from 8^{th} to 18^{th} Century-**
    Gurjar Pratihars, Chauhans of Ajmer, Relations with Delhi Sultanate– Mewar, Ranthambore and Jalore, Rajasthan and Mughals – Rana Sanga, Maharana Pratap, Mansingh of Amer, Chandrasen, Rai Singh of Bikaner, Raj Singh of Mewar.
  - **History of Freedom Struggle in Rajasthan-**
    Revolution of 1857, Political Awakening, Prajamandal Movements, Peasants and Tribal Movements.
  - **Integration of Rajasthan.**
  - **Society and Religion-**
    Lok Devta and Devian, Saints of Rajasthan, Architecture – Temples, Forts and Palaces, Paintings – Various Schools, Fairs and Festivals, Customs, Dresses and Ornaments, Folk Music and Dance, Language and Literature.

  - **Mental Ability Test:**
    Analogy, series completion, coding-decoding, blood relations, logical venn diagrams.

Statistics (Secondary Level):
Collection of data, presentation of data, graphical representation of data, measures of central tendency, mean, mode, median of ungrouped and grouped data.

Mathematics (Secondary Level):
Natural, rational and irrational numbers, real numbers and their decimal expansions, operations on real numbers, laws of exponents for real numbers, rational numbers and their decimal expansions. Zeroes of a polynomial. Relationship between zeroes and coefficients of a polynomial. Division algorithm for polynomials. Algebraic methods of solution of pair of linear equations in two variables.

Mensuration:
Surface area of a cuboid, cube, right circular cylinder, right circular cone, sphere. Volume of a cuboid, cube, cylinder, right circular cone and sphere, Surface area and volume of a combination of solids conversion of solid from one shape to another.

Language Ability Test:

सामान्य हिन्दी:

- संधि, संधि विच्छेद
- उपसर्ग, प्रत्यय
- अनेकार्थक शब्द, विलोम शब्द, समश्रुत भिन्नार्थक शब्द
- शब्द–शुद्धि, वाक्य– शुद्धि
- अँग्रेजी के पारिभाषिक (तकनीकी) शब्दों के समानार्थक हिन्दी शब्द (केवल प्रशासनिक शब्द)

General English:

- Tenses/Sequence of Tenses
- Active and Passive Voice
- Direct and Indirect Speech
- Use of Articles and Determiners
- Use of Prepositions
- Correction of Sentences including Subject-Verb Agreement, Degrees of Adjectives, Connectives
- Glossary of Official and Technical Terms (with their Hindi Versions)
- Antonyms and Synonyms
- Word Formation (by using Prefixes and Suffixes)
- Words often Confused

- **Current Affairs:**
  - **A. Rajsthan and India.-**

    Recent development programmes, flagship schemes and new initiatives, skill development and startup initiatives; social and economic indicators; events of importance; persons and places; contemporary events in science, technology and environment; awards and prizes; latest books and authors; sports and games.
  - **B. International-**

    Contemporary International issues and events.
  - **General Science:**

    Atoms and molecules, chemical reactions and equations, carbon and its compounds, force and laws of motion, work and energy, electricity, sound, tissues, control and coordination, heredity and evolution, management of natural resources, protection of environment, biodiversity and sustainable development, science in daily life, recent developments in science and technology, traditional knowledge system of India in science.
  - **Indian Polity**:
    - Government of India Act 1935, Constituent Assembly and Salient features of the Constitution of India.
    - President, Vice-President, Prime Minister and Council of Ministers.
    - Parliament, Supreme Court, Election Commission, Union Public Service Commission.
    - Panchayats and Municipalities.
    - National Human Rights Commission, National Commission for Women, Central Vigilance Commission, National Green Tribunal and National Commission for Protection of Child Rights.
  - **Geography of Rajasthan:**

    Location, Extent, Shape, Size, Physical features, Drainage, Soil, Natural vegetation and Wildlife, Climate, Demographic Characteristics, Agriculture, Livestock, Mineral Resources, Energy Resources, Tourism, Transport, Industries and trade.

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For the competitive examination for the post of **Coach:-**

1. The question paper will carry maximum **150 marks.**
2. Duration of question paper will be **01 Hours 30 Minutes.**
3. The question paper will carry **75 questions** of multiple choices.
4. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.
5. Paper shall include following subjects :-

   (i) History of Rajasthan and Indian History with special emphasis on Indian National Movement

   (ii) Mental Ability Test, Statistics (Secondary Level), Mathematics (Secondary Level), Language Ability Test:- Hindi, English

   (iii) Current affairs

   (iv) General Science, Indian Polity, Geography of Rajasthan.

RAJASTHAN PUBLIC SERVICE COMMISSON, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF COACH (SCHOOL EDUCATION) (ATHLETICS/BASKETBALL/VOLLEYBALL/ HANDBALL/KABADDI/ TABLE TENNIS)

PAPER – II

Part-I: Knowledge of Physical Education & Sports: -

Section A

- Physical Education: Introduction, Definition, Aims, Objectives, Scope, Need, Importance and other terms- Wellness, Health education and Recreation.
- Misconceptions about Physical Education and Modern Concepts of Physical Education.
- Biological Foundation: Heredity and Environment, Chronological, Anatomical, Physiological and Mental Ages, Body Types/Classification.
- Psychological Foundation: Play and their Theories, Growth and Development, Principles of Motor –Skill Acquisition, Transfer of Training Effects.
- Sociological Foundation: Traditions, Leadership, Group Dynamics, Socialization and Social Interaction, Competition and Cooperation, Sports as Cultural Heritage, Women and Sports.
- Media and Sports, Spectators and Administrators.
- Philosophical Foundation: Idealism, Pragmatism, Naturalism and Realism.
- Physical Fitness,Health related Fitness: Warming up, Limbering down, Aerobic and Anaerobic Activities, Calisthenics and Rhythmic Exercises.

Section B

- Exercise programme for the Development of the Following Muscles of the Body: Chest, Abdomen, Back, Neck, Arm, Shoulder, Thigh and Calf.
- Kinesiology and Bio-Mechanics.
- Law of Motion, Lever, Force, Center of Gravity, Equilibrium and their relationship with Sports, Body Composition, Body-Mass Index.
- Posture and Common Postural Deviations/deformities.
- Therapeutic Modalities in Rehabilitations.
- Sports Massage: History, Approach, Effect and Types of Massage Manipulations.
- Olympic Movement: Historical development of ancient and modern Olympic Games.
- Paralympics- History, Types of Classification.
- Pre and Post Independence History of Physical Education in India.
- SAI and NSNIS and other Coaching Institutes of India.
- 12 verticles of Khelo India Scheme.
- Khelo Bharat Neeti-2025.

Section C

Organization, Administration and Management in Physical Education and Sports:

- Qualification and Responsibility of Physical Education Teacher/Coach.
  Budget, Record and register.

- Organization Structure of Athletic Meet and Planning of Intra Mural and Extra Mural of Tournament.

Part-II: Sports Sciences: -

Section A

- Physiology of Muscular Activity, Neuro muscutar system and Movement Mechanism.
- Types of Muscle Fibres.
- Physiology of Respiration and Blood Circulation
- Bioenergetics and Recovery Process.
- Ergogenic Aids and Doping.
- Second Wind, Oxygen-Debt, VO_2 max.
- ATP, CP, Aerobic and Anaerobic metabolic process of exercise.

Section B

- Joints and their Movements-Planes and Axes, Kinesthetic Sense.
- Mechanical Analysis of Fundamental Movements: Running, Jumping, Throwing, Receiving, Pulling & Pushing.
- Learning Process, Theories and Laws of Learning, Transfer of Training.
- Motivation: Theories and Dynamics of Motivation in Sports, Techniques of motivational Enhancement.
- Personality, its Dimensions, Theories, Personality and Performance.
- Psychological factors affecting Sports Performance viz., Stress, Anxiety, Aggression and Goal setting.
- Psychological Preparation in Sports.
- Theory of Arousal-performance relationship, technique of arousal regulation.
- Role of Macro and Micro nutrients in sports.
- Balance a specific diet for sports person and sports person with special needs.

Part-III: General Theory and Method of Training: -

Section A

- Sports Training: Aims, Objectives, Principles and Characteristics.
- Training-Means and Methods.
- Training- load, Adaptation and Recovery.
- Periodisation.
- Motor Fitness: Meaning, Types, Principles and Methods of Developing.
- Technical and Tactical Preparation for Sports.

Section B

- Short and long term training plans.
- Sports talent identification process.
- Preparation for competition: build up competition, main competition, competition frequency.
- Coaching and Officiating: Meaning, Importance and Principles.
- Lead-up games activities.
- Evaluation of physical fitness test.

Part-IV: Specific Knowledge of Games/Sports and its current affairs: (Choose one Game/Sport from the following part of your Coaching/ Specialization)

(a) Athletics (b) Basketball (c) Volleyball (d) Handball (e) Kabaddi (f) Table Tennis

Section A

- History of respective Games/Sports (National and international level).
- Latest Rules and their Interpretations of above Games/Sports.
- Tactics and Strategy of above Games/Sports.
- Fitness (AAHPER Test, Motor Fitness Test, Indiana Test, JCR Test, Cooper Test, Harvard step Test and Bronco Test)
- Skill tests of respective Games/Sports.
- Factors influencing Performance in sports.
- Coaching Practice.
- Types of tournaments and its organizational Structure: -
  Knock-out, League or Round Robin, Combination Tournament, Challenge Tournament.
- Tournament Preparation and analysis of technologies.
- Organization and Management of Competition of above Games/Sports.
- Mechanics of Officiating of above Games/Sports.

Section B

- Measurement of Play Fields and Specifications of Sports Equipment of above Games/ Sports.
- Fundamental Skills of above Games/Sports.
- Related sports terminologies of above Games/Sports.
- First Aid, Sports Injuries related to Games.
- Important tournaments and Venues of above Games/Sports.
- Sports Personalities of above Games/Sports.
- Sports Awards of above Games/Sports.
- Sports Associations or Federations of above Games/Sports.

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For the competitive examination for the post of **Coach: -**

1. The question paper will carry maximum **300 marks.**
2. Duration of question paper will be **Three Hours.**
3. The question paper will carry **150 questions** of multiple choices out of which, a candidate has to choose **only one Game/ Sports** of his specialization from **Part IV**.
4. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.
5. Paper shall include following subjects: -

(i) Knowledge of Physical Education & Sports.
(ii) Sports Sciences.
(iii) General Theory and Method of Training.
(iv) Specific Knowledge of Games/Sports and its current affairs.

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION) PHYSICAL EDUCATION

PAPER- I

I. **Geographical, Historical, Cultural and General Knowledge of Rajasthan: -**

- Physical features, Climate, Drainage, Natural Vegetation, Agriculture, livestock, Dairy development, Demographic Characteristics, Tribes, Industries, Tourism and major tourist centres.
- **Ancient Culture & Civilization of Rajasthan (Sites and their importance)**
- **History of Rajasthan upto 18th Century**
  - Rajput dynasties of Rajasthan
  - Relations with Delhi Sultanate – Mewar, Ranthambore and Jalore.
  - Rajasthan and Mughals – Mewar, Marwar, Amer and Bikaner (With special reference to Sanga, Pratap, Mansingh of Amer, Chandrasen, Rai Singh of Bikaner, Raj Singh of Mewar).
- **History of Freedom Struggle in Rajasthan**
  - Revolution of 1857.
  - Political Awakening.
  - Prajamandal Movements.
  - Peasants and Tribal Movements.
- **Integration of Rajasthan**
- **Society and Religion**
  - Lok Devta and Devian.
  - Saints of Rajasthan.
  - Architecture – Temples, Forts, Palaces and Monuments.
  - Paintings – Various Schools.
  - Fairs and Festivals.
  - Customs, Dresses, Ornaments and Handicrafts.
  - Folk Music, Dance and performing Art.
  - Language and Literature.
  - Leading Personalities of Rajasthan.

Political and Administrative System of Rajasthan: -

- Governor, Chief Minister and Council of Ministers.
- State Legislative Assembly.

- Rajasthan High Court and Subordinate Courts.
- Panchayati Raj System and its Administration.
- Urban Local Self Government and its Administration.
- State Secretariat, Divisional Commissioner, District Administration.
- Rajasthan Public Service Commission, Rajasthan State Commission for Women, Rajasthan State Finance Commission, Rajasthan State Election Commission.
- Lokayukta, Rajasthan State Legal Services Authority.

II. **Current Affairs of Rajasthan :-**

- Important Persons, Places and Current Issues.
- New Schemes and Initiatives related to Welfare and Development.
- Economic-Political Dynamics.
- Sports and Games.
- Awards, Books and Authors.

III. **General Knowledge of World & India :-**

- Continents, Oceans and their characteristics, Global Wind System, Environmental issues and strategies, Principal Human Occupation, Population distribution and Migration.
- **India: -** Physical features, Climate System, Drainage, Natural Vegetation and Biodiversity, Energy resources.

Indian Economy: -

- Growth and Development in Agriculture, Industry and Service Sector in India. Foreign Trade of India: Trends, Composition and Direction.

Constitution of India and Foreign Policy: -

- Constitutional Development of India, Constituent Assembly and Role of B.R Ambedkar.
- Citizenship, Fundamental Rights, Directive Principles of State Policy, Fundamental Duties.
- President, Vice-President, Prime Minister and Council of Ministers.
- Parliament, Supreme Court, Election Commission.
- Principles of India's Foreign Policy and Contribution of Jawahar Lal Nehru, India's Relations with Major Powers and Neighbouring Countries, Contemporary Issues and Challenges.

IV. **Educational Psychology: –**

- **Educational Psychology** – Nature, scope and implications for effective teaching.
- **Holistic Development of Learner** – Concept and principles of development, cognitive, social, moral, emotional, linguistic and physical development.

- **Learning**- Meaning and types, Behavioural, Cognitive, Social cognitive and Constructivist approach to learning, factors affecting learning and implications for a teacher.
- **Personality** – Meaning, theories and measurement, Adjustment and mental health.
- **Intelligence and Creativity** – Meaning, theories and measurement, role in learning, Emotional intelligence- concept and practices.
- **Motivation** – Meaning and types, Theories of motivation and its implications for teaching learning.
- **Individual Differences** – Meaning, sources and class room implications Inclusive education.
- **Development of 21st Century skills**: Concept and Strategies.

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For the competitive examination for the post of **Lecturer (Physical Education):** -

1. The question paper will carry maximum **200 marks**.
2. Duration of question paper will be **Two hours.**
3. The question paper will carry **100 questions** of multiple choices.
4. Paper shall include following subjects: -
   (i) Geographical, Historical, Cultural and General Knowledge of Rajasthan
   (ii) Current Affairs of Rajasthan
   (iii) General Knowledge of World and India
   (iv) Educational Psychology
5. Negative marking shall be applicable in the evaluation of answer. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.

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RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS OF COMPETITIVE EXAMINATION FOR THE POST OF LECTURER (SCHOOL EDUCATION)
PHYSICAL EDUCATION

PAPER – II

1. General Knowledge of Physical Education of Secondary and Senior Secondary Standard:

- Physical Education: Meaning, Aims, Objectives, Scope, Need and Importance.
  Misconceptions about Physical Education and Modern Concept of Physical Education.
  Biological Foundation: Heredity and Environment, Chronological, Anatomical, Physiological and Mental ages. Body types/Classification, Second Wind, Oxygen-debt and Kinesthetic Sense and VO_2 Max.
  Psychological Foundation: Learning, Theories and Laws, Learning Plateau, Transfer of learning.
  Sociological Foundation: Traditions, Leadership, Group Dynamics, Socialization and Social Interaction.
  Philosophical Foundation: Idealism, Pragmatism, Naturalism, Realism, Existentialism and Humanism.
- Physical Fitness, Wellness: Warming up, Limbering down, Conditioning, Aerobic and Anaerobic Activities, Calisthenics and Rhythmic Exercises.
  Changing Trends and Career Options in Physical Education.
  Exercise Programme for the Development of Whole Body.
- Test, Measurement and Evaluation in Physical Education.
  - Criteria of test selection
  - Physical and motor fitness test
  - Anthropometric test
- Sports Biomechanics and Kinesiology: - Planes, Axis, origin, insertion and action of the major muscles of the body, Law of motion, lever, equilibrium, force, projectile and Aerodynamics.
- Women Participations in Sports.
  Games and Sports as Cultural Heritage.
  Posture and Common Postural Deformities.
  Therapeutic Modalities in Rehabilitations.
  Ergogenic Aids and Doping in Sports.
  Sports Massage: History, Approach, Effect and Types of Massage Manipulations.
  Prevention and First Aid for Common Sports Injuries.

2. **General Knowledge of Sports, Physical Education and its Current Affairs:**
   Games/Sports: Athletics, Basketball, Badminton, Chess, Cricket, Football, Gymnastic, Handball, Hockey, Judo, Kabaddi, Kho-Kho, Tennis, Swimming, Table Tennis, Volleyball and Wrestling, Weight-Lifting, Softball, Boxing, Wushu.
   - History of respective Game/Sports at International and National level.
     Latest General Rules and Skill Test of above Games &Sports.
     Measurement of Play Fields and Specifications of Sports Equipment of above Game / Sports.
     Fundamental Skills of above Games / Sports and their Strategies and Tactics.
     Related sports terminologies of above Games / Sports.
   - Proper Sports Gear of above Games/sports, Competition/ Tournament, Specific Sports Programme: Sports Day.
     Sports Personalities and Awards.
     Adventure Sports- Rock Climbing, Trekking, Mountaineering, River Rafting.
     Sports Associations and Federations.
     Ancient and Modern Olympic Games and Paralympics, Winter and Youth Olympics, Commonwealth games Asian games.
   - **Research Methodology and Information Communication Technology:**
     Research- Meaning, Definition, selection of Problem, Statistical Techniques (F test, T Test, Z Test, ANOVA, SPSS).
     Information Communication Technology- Communication and Classroom Introduction, Teaching Learning Process (MS Office/ Excel).
   - **Khelo Bharat Neeti-2025 and its characteristics.**
   - **National Curriculum frame work for school education 2023** (in the light of physical education).

3. **Theories, Definitions and History of Physical Education:**
   - History of Physical Education in India: Pre and Post Independence period.
     Physical Education in the City/States of Greece and other Countries.
   - Contribution to the Growth of Physical Education by Leaders and Movements of following Leaders: Baren P. Coubertin, John Basedow, Guts Muths, H. C. Buck, G. D. Sondhi, Dr. P. M. Joseph, Prof. D. G. Wakharkar, Prof. Karan Singh and Prof. Ajmer Singh.
   - SAI, NSNIS, LNIPE, HVPM, YMCA.
     Khelo India & its verticals.
     Rajasthan State Sports Council.

4. **Education and Sports Psychology:**
   - Sports Psychology: Meaning, Definitions, Nature and Scope.
     Growth and Development.
     Stress, Anxiety, Aggression and their Management.

- Psycho-Physical Unity, Motivation, Personality.
  Coping strategies, Self-Esteem and Body Images.
  Psychological Benefits of Exercise.
  Sports Ethics, Morality and Moral Values.

5. Methods, Supervisions and Organizations of Physical Education:

- Planning, Records and Register.
- Organization and Conduct of Competitions and Tournaments: Knock-Out, League, Combination and challenge or perennial type tournament.
  Public relation: meaning, importance in physical education and sports.

6. Scientific Principals of Training:

- Sports Training: Principles, Characteristics and Methods.
  Training Load Adaptation and Periodization; Importance, Objective, Types, Concepts of Different Periods, LTDP, STDP, Macro, Meso, Micro cycle, Development of gross Motor Movement.
  Motor Fitness components-their types and developmental plans.
- Training Plans
- Coaching: Meaning, Techniques, Tactics and Lead-up Games Activities.
- Officiating: Meaning, Importance and Principles. Official/ Officials.
- Qualities, Qualifications & Responsibilities of Administrators/ Officials.

7. Basic and Systematic Human Anatomy, Exercise Physiology and Health Education:

- Anatomy: Meaning, Concept, Need and Importance in Physical Education & Sports.
  Cell, Tissue and Organ System, Physiology of Sports.
  Bones and Joints: Definition, Classification and Terminology of Movement around Joints.
  Muscles: Types, Structure and Functional Classification, General Characteristics (Properties). Macro and Micro Structure of Skeletal Muscles, Sliding Filament Theories, Physiology of blood.
  Exercise Physiology: Meaning, Need and Importance in Physical Education & Sports. Effects of Exercise on Body Systems, Bio-energetics.
- Health: Dimensions, Ecology, Spectrum, Determinants and Positive health, Hygiene, Community Health and Aspects of School Health Services.
  Health Education: Concept, Objectives, Importance and Principles.
  Sports, Nutrition, Balance Diet and Diet according to Sports Activities, Weight Management.
  Health Problems in India.
  Diseases: Communicable, Non-communicable and Hereditary. Effects of Alcohol, Tobacco & Drugs on Sportsperson.

8. Yoga, Camping and Recreation:

- Yoga: Meaning, Types, Stages, Scope, Objective, Significance.
- Patanjali's Philosophy- Chitt, Vrati, Abhyas, Panchkosh, Kriya yog, Asthang yog.
- Hath yoga followed by Hath Pradipika and Gherand Samhita and Shatkarma,
- Assana, Prayanam, Bandhas, Mudras it's Methods, Limitations & their Management.
- Recreation: Definition, Types, Scope, Significance, Philosophy and Objectives.
  Theories of Play.
  Agencies Offering Recreation, Facilities, Equipments and their Maintenance, Types of Recreational Activities.
- Camping: Scope, Significance and Types of Camps, Selection and Layout of Camp sites, Organization and Administration of Camps.

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Paper – II Subject Concerned

1. The question paper will carry maximum **260 marks.**
2. Duration of question paper will be **Two hours.**
3. The question paper will carry **130 questions** of multiple choices.
4. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one third of the marks prescribed for that particular question shall be deducted.

Explanation: Wrong answer shall mean an incorrect answer or multiple answers.

5. Paper shall include following subjects –

(i) General Knowledge of Physical Education of Secondary and Senior Secondary Standard.
(ii) General knowledge of Sports, Physical Education and its current affairs.
(iii) Theories, Definitions and History of Physical Education.
(iv) Education and Sports Psychology.
(v) Methods, Supervisions and Organizations of Physical Education.
(vi) Scientific Principals of Training.
(vii) Basic and Systematic Human Anatomy, Exercise Physiology and Health Education.
(viii) Yoga, Camping and Recreation.