

**SCHEME & SYLLABUS OF EXAMINATION OF PART-I FOR POST NO. 9**

**DRAUGHTSMAN CUM TRACER**

| <b>Part</b> | <b>Section</b> | <b>Subject/Syllabus</b>  | <b>No. of questions</b> | <b>Maximum Marks</b> | <b>Qualifying Marks</b> |
|-------------|----------------|--|-------------------------|----------------------|-------------------------|
|             |                |  | <b>60</b>               | <b>180</b>           | <b>72</b>               |
| Part-I      | Section 'A'    | Reasoning/Quantitative Aptitude  | 20                      | 60                   |                         |
|             | Section 'B'    | <ul style="list-style-type: none"><li>• <b>General Knowledge &amp; General Knowledge of Rajasthan:</b><ol style="list-style-type: none"><li>1. Events of State, National and International importance</li><li>2. Geography and Natural Resources of India and Rajasthan</li><li>3. Agricultural, Social and economic development of India Rajasthan</li><li>4. Indian Medieval History, Indian struggle for Independence,, and History of Rajasthan</li><li>5. Culture and heritage of India and Rajasthan</li></ol></li><li>• <b>General Science:</b><ol style="list-style-type: none"><li>1. Elements, Mixtures and Compounds</li><li>2. Physical and Chemical Changes; Oxidation and Reduction: Catalysis</li><li>3. Metals and Non Metals</li><li>4. Acids, bases and Salts</li><li>5. Reflection of light and its laws, lenses,</li></ol></li></ul> | 30                      | 90                   |                         |

|  |             |  |    |    |  |
|--|-------------|--|----|----|--|
|  |             | <p>human eye, defects of vision and its correction</p> <ol style="list-style-type: none"> <li>6. Electric current, Electric potential, Ohms law, electric cell and Electric motor</li> <li>7. Human Brain, hormones, human diseases and cure</li> <li>8. Economic importance of animals and plants</li> <li>9. Biomass, sources of energy, ecosystem, Mendel's Law of inheritance, chromosomes</li> <li>10. Human blood groups, blood transfusion, Deficiency diseases and cure</li> </ol> <ul style="list-style-type: none"> <li>• <b>Basic Computer Skills:</b> <ol style="list-style-type: none"> <li>1. Introduction to Computers</li> <li>2. Computer Systems</li> <li>3. Uses of Computers</li> <li>4. Introduction to the Internet &amp; Search Engines, Internet Applications</li> <li>5. Operating system,</li> <li>6. MS Word Advance</li> <li>7. Database Management System</li> <li>8. MS Excel Advance</li> <li>9. MS Power Point Basics</li> <li>10. Microsoft Outlook-Basics</li> </ol> </li> </ul> |    |    |  |
|  | Section 'C' | <p><b>Language Comprehension</b></p> <ul style="list-style-type: none"> <li>• <b>Hindi</b> <ol style="list-style-type: none"> <li>1. शब्द रचना: संधि एवं संधि विच्छेद, समास, उपसर्ग, प्रत्यय</li> </ol> </li> </ul>  | 10 | 30 |  |

|  |  |   |  |  |  |
|--|--|---|--|--|--|
|  |  | <ol style="list-style-type: none"> <li>2. शब्द प्रकार: तत्सम, तत्भव, अर्धतत्सम, देशज, विदेशी, संज्ञा, सर्वनाम, विशेषण, क्रिया, अव्यय</li> <li>3. शब्द ज्ञान: पर्यायवाची, विलोम, शब्द युग्मों का अर्थभेद, वाक्यांश के लिए सार्थक शब्द, संश्रुततभिन्नार्थक शब्द, समानार्थी शब्द, उपयुक्त शब्द चयन, संबंधवाची शब्दावली</li> <li>4. शब्द शुद्धि</li> <li>5. व्याकरणिक कोटियाँ: परसर्ग, लिंग, वचन, पुरुष, काल, वृत्ति, पक्ष, वाच्य</li> <li>6. वाक्य रचना</li> <li>7. वाक्य शुद्धि</li> <li>8. विराम चिह्नों का प्रयोग</li> <li>9. मुहावरे/ लोककित्या</li> <li>10. पारिभाषिक शब्दावली: प्रशासनिक/ विविध</li> </ol> <ul style="list-style-type: none"> <li>• <b>English</b> <ol style="list-style-type: none"> <li>1. Use of articles and determiners</li> <li>2. Tenses/ sequence of tenses</li> <li>3. Active and passive voice</li> <li>4. Direct and Indirect Narration</li> <li>5. Use of Prepositions</li> <li>6. Synonyms and antonyms</li> <li>7. Comprehension of passage</li> <li>8. Idioms and Phrases</li> <li>9. Letter writing: Official, Demi-official. Circulars and Notices</li> </ol> </li> </ul> |  |  |  |
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## **POST NO. 9 DRAUGHTSMAN CUM TRACER**

### **SCHEME AND SYLLABUS OF EXAMINATION OF PART-II**

| <b>Part</b> | <b>Section</b> | <b>Subject</b>  | <b>No. of Questions</b> |    | <b>Maximum Marks</b> |     |
|-------------|----------------|---|-------------------------|----|----------------------|-----|
|             |                |   |                         |    |                      |     |
| Part-II     | Section 'A'    | B.I.S. introduction of Code of Practice for Architectural and Building Drawing (IS:962-1989) Layout of drawing, Lines, Lettering, Dimensioning, Scales and Projection, Construction of plain and solid geometrical figures, symbols & conventional representation for materials in sections as per IS 962-1989 for building drawings, Building Planning | 90                      | 40 | 270                  | 120 |
|             | Section 'B'    | Building Material, Foundation, Permanent & Temporary structure, Prefabrication structure, RCC structure, Steel structure.   |                         | 25 |                      | 75  |
|             | Section 'C'    | Roads, Estimating and Costing, Surveying, Levelling   |                         | 25 |                      | 75  |

**Note :** Only those candidates, who have qualified the written examination, will be called for Proficiency test.  
The number of candidates called for Proficiency Test would be three/five times the number of vacancies advertised for the post but in the said range although candidates who secure the same percentage of marks shall be included.

| Proficiency Test | Subject                   | Duration | Maximum Marks | Qualifying Marks |
|------------------|---------------------------|----------|---------------|------------------|
|                  | AUTO CAD Test on Computer | 3 Hours  | 100           | 40               |