

**SCHEME & SYLLABUS
FOR DIRECT RECRUITMENT TO THE POST OF PRT, TGT & PGT
IN ORDNANCE FACTORIES DEPARTMENTAL SCHOOLS.**

**1. Primary Teacher (PRT)-
SCHEME OF EXAMINATION –**

- (1) **Written Test-** There will be a written examination of 200 marks. Question paper will consist of multiple choice objective questions in two parts as per the following:-

Part	Subject	Maximum No. of Questions	Maximum No. of Marks	Minimum Qualifying Marks (Subject wise) (40%)	Minimum Qualifying marks (Aggregate) (45%)	Duration of examination
Part-I	English	25	25	10	23	3 Hours
	Hindi/Medium of instruction of school	25	25	10		
Part-II	Current Affairs	25	25	NA	NA	
	Reasoning Ability	25	25	NA	NA	
	(i) General Science (ii) General Maths (iii) Environmental Science	100	100	NA	NA	

Note-

- (1) Part –II of the question paper of the candidate will be evaluated only if he/she qualifies in Part-I.
- (2) The merit will be based only on the basis of performance in Written Test

- (2) **Teaching Skill Test-** Candidates to be called on the basis of merit in written test in the ratio of 1:5. The Teaching Skill Test will be of qualifying nature only. The Teaching skill of the candidates will be assessed in the following parameters/areas:-

- (a) Communication Skills
- (b) Teaching Methodology.

Note- Only CTET/State TET pass candidates will be allowed to apply as per recruitment rules.

SYLLABUS FOR DIRECT RECRUITMENT

1. **PRIMARY TEACHER (PRT) - Written Test** – Question papers will assess the candidates' ability in the following areas: (standard of questions/level of difficulty to be of Senior Secondary Level):-

- (i) Core language Competency (English and Hindi/Medium of instruction of the School)- 50 Marks (25+25)

CORE LANGUAGE COMPETENCY- The candidate should have adequate understanding of English and Hindi/ Medium of instruction of the school to deal with students of Elementary Classes. The ability to comprehend texts and express them effectively in writing/orally will be measured through Written test and Teaching Skill Test.

English- Articles/Determininals, Prepositions, Verb forms, Adjectives, Tense, Modal Auxiliaries, Active/Passive, Reported speech, Punctuations, Letter Writing-formal & informal, Essay on current issues, Speech, vocabulary, idioms and phrases, Antonym & Synonyms, Methods of teaching English at Elementary level.

हिन्दी पाठ्यक्रम : भाषा , संज्ञा, सर्वनाम, विशेषण क्रिया अव्यय, लिंग, पुल्लिंग, स्त्रीलिंग, उपसर्ग, प्रत्यय, वचन, एकवचन, बहुवचन. वाक्य रचना, विलोम या विपरीतार्थक शब्द , समरूपी भिन्नार्थक शब्द, मुहावरे, अलंकार, विराम चिन्ह, पदपरिचय, संधि, एकार्थी शब्द, अनेकार्थी शब्द, अनेक शब्दों के लिए एक शब्द, तत्सम –तदभव शब्द, समास लोकोक्तियाँ , मुहावरे, । अपठित गद्यांश एवं भाषा शिक्षण की प्रभावी विधियाँ ।

Language of instruction of the School - The syllabus will be as per the guidelines given for English/Hindi.

- (ii) Current Affairs- 25 Marks
- (iii) Reasoning ability-25 Marks
- (iv) (a) General Science - 100 Marks
(b) General Maths
(c) Environmental Science

(a) GENERAL SCIENCE- Living world, Human Body, Plant Life, Natural Vegetation and Wild Life, Food, The Universe:- Natural phenomenon, planets, Indian Space Research programme; Our country :- Its surface, natural resources, food & crop. Matter:- concept of elements, molecule and atom. Basic structure of atom, Radioactivity, gases and liquids, classification of Hydrocarbons. Chemical and physical changes. Green house effect, photo synthesis, Motion:- displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance - time and velocity, idea of uniform circular motion. Force and motion, inertia, momentum, force and acceleration action and reaction forces. Elementary idea of conservation of momentum, conservation of energy, simple machine.

(b) **GENERAL MATHS**- Number System, estimation of numbers, Place value, use of symbols, word problems on number operations involving large numbers, conversions of units of length & mass, Multiples and factors, even, odd and prime/composite numbers, prime factorization, HCF and LCM, Rationale numbers. Whole numbers, Seeing patterns:- identifying and formulating, rules, Integers, Properties of integers, Fractions, Ratio and Proportion, percentages, profit & loss, work & time, velocity & distance, simple and compound interest, binomials, polynomials, basic of algebra, linear equation, quadratic equation & word related problems, Basic geometrical ideas: Line, line segment, ray. Open and closed figures. Angle - Vertex, arm, interior and exterior, Triangle, vertices, sides, angles, interior, Quadrilateral- Sides, vertices, angles, Circle- Center, radius, diameter, arc, Concept of perimeter, Data handling, Pictograph- scaling in pictographs and its interpretation. General understanding of *perimeter* using regular shapes. Shapes of different kinds with the same perimeter. Area of various regular geometric shapes. Measuring areas of different shapes with the help of graph. Concept of volume, measurement of volume using a basic unit, volume of a cube, cuboids and cylinder, Volume and capacity (measurement of capacity). Surface area of a cube, cuboids and cylinder.

(c) **Environmental Science**- Primary Institutions of democracy, Local bodies, State bodies, National bodies, citizen's rights in democracy, Role of panchayat and Nagarpalikas in education, health and other social services. Population growth in India: distribution, density & growth, sex ratio, rural urban composition, education, Human development indicators. Common Diseases, Deficiency diseases & Communicable diseases and their prevention. First Aid and Our Health Services at village and District Level, Natural Calamities - their causes, impact and steps to reduce the effect, Transport and Communication - their impact, Natural Resources- Air, Water, Soil and Land (Minerals, metals, non-metals), Resources and Development; Natural resources:- forest and minerals, Water resources, rivers, irrigation system and crop pattern. **Map of India**: - Location of identification, understanding of globe with special reference to Latitude, Longitude & time, Five Years plans, National freedom movement, cultural renaissance, social reformers of India.

Teaching Skill Test- For assessing the Teaching ability of the candidates:- it will interalia, include test of communication skills and teaching methodology.
