



**N T P**

**SAMPLE PAPER**

## for Class IX

*Time: 3 Hours*

*Maximum Marks: 225*

***Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.  
You are not allowed to leave the Examination Hall before the end of the test.***

### **INSTRUCTIONS**

1. The question paper consists of **3 parts (Mental Ability, Science and Maths)**.
2. The test is of **3 hours** duration and consists of **75 questions**. Each question has 4 / 5 choices (A), (B), (C), (D) and (E), out of which **ONLY ONE** is correct.
3. Each question carries **3 marks**. For each correct response the candidate will get **3 marks**. For each incorrect response, **one mark** will be deducted.
4. Use **HB+ pencil** only for writing particles on the page / marking responses.
5. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
6. **On completion of the test, the candidate must handover the Test Booklet & Answer Sheet to the invigilator in the Room/Hall.**
7. Use of Electronic /Manual Calculator is prohibited.

Name of the Candidate (in Capitals): \_\_\_\_\_

Father / Guardian Name (in Capitals): \_\_\_\_\_

Present Address: \_\_\_\_\_

\_\_\_\_\_

Ph. No. (Guardian): \_\_\_\_\_

Ph. No. (Student): \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

Invigilator's Signature \_\_\_\_\_

**Admission for :**  Ranchi Centre  Patna Centre  
(✓ relevant)

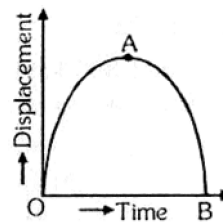
**SECTION – I [MENTAL ABILITY]**

**Directions** — Questions 1-5 are based on symbol series. In each question some symbol are missing shown by (—). The missing symbols are given in proper sequence as one of the five alternatives given under each question. Find out the correct alternative and encircle its number on the answer sheet against the question number.

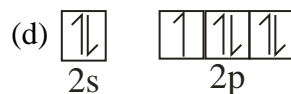
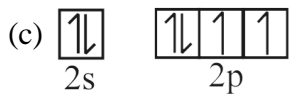
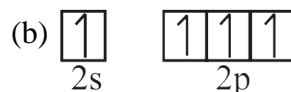
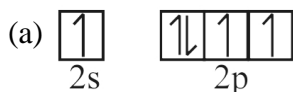
1. B — P P N — B B P — N N B — P P N N  
 (a) NBPB (b) BPPN (c) BNPB (d) PBNB  
 (e) PPNB
2. — — r P — Z r — w Z r —  
 (a) ZW Pw P (b) Pw ZW P (c) w ZPw P (d) w ZW PP  
 (e) ZW Pw P
3. — — — V — S T — R S — — — S T V  
 (a) SRTRVRTS (B) RSTRVTVR (c) RSTVRTSP (d) VRSTRSPT  
 (e) STVRTRTS
4. — — 6 — 9 — 56 — 945 — 79  
 (a) 547674 (b) 457476 (c) 457674 (d) 744576  
 (e) 547675
5. P — — — — A S — P A — — — — A S T  
 (a) PASTPTTA (b) ASTTPASP (c) ASPTSTAT (d) STPAPTAP  
 (e) ASTPTSTP

**SECTION – II [SCIENCE]**

6. Work done in moving a 50 kg block through a horizontal distance of 10 m by applying a force of 100N which makes an angle of  $60^\circ$  with the horizontal is  
 (a) 200 joule (b) 425joule (c) 500 joule (d) 575 joule
7. In the given figure, velocity of the body at A is  
 (a) zero  
 (b) unity  
 (c) maximum  
 (d) infinite



8. Which of the following electronic configuration does not obey aufbau principle –



9. The mass of 1 u is –

(a)  $\frac{1}{12} \times \frac{1}{6.022 \times 10^{23}} \text{ g}$

(b)  $\frac{1}{6.022 \times 10^{23}} \text{ g}$

(c)  $\frac{12}{6.022 \times 10^{23}} \text{ g}$

(d)  $6.022 \times 10^{23} \text{ g}$ .

10. Maize is a :-

(a) Dicot angiospermic plant

(b) Monocot angiospermic plant

(c) Pteridophyte

(d) Gymnosperm.

11. The disease that can be transmitted through body fluids are :-

(a) AIDS and hepatitis B

(b) TB and typhoid

(c) influenza and cholera

(d) cholera and rabies

### SECTION – III [MATHS]

12. From a two digit number N, the number with reversed digits is subtracted. The resulting number is a positive perfect cube. Then –

(a) there are exactly 10 values of N

(b) there are exactly 9 values of N

(c) there are exactly 6 values of N

(d) no such number is possible

13. A man can do a piece of work in 30 hours. He and his son together finish it in 20 hours. The son along will finish it in

(a) 60 hours

(b) 50 hours

(c) 25 hours

(d) 10 hours

14. If two lines intersected by a transversal, then each pair of corresponding angles so formed is –

(a) Equal

(b) Complementary

(c) Supplementary

(d) None of these

15. If medians BE and CF of a triangle ABC intersect at G, then the ratio of area of quadrilateral AGFE to area of the triangle ABC is:

(a) 3 : 5

(b) 4 : 9

(c) 1 : 4

(d) 1 : 3.

16. Three cubes of side 4 cm. each are joined end to end to form a cuboid. The surface area of the resulting cuboid and total surface area of the three cubes are in the ratio:

(a) 1 : 1

(b) 7 : 3

(c) 7 : 9

(d) 9 : 7.