Time allowed: 3 hours | [ Maximum Marks: 60 ]

- कुण्या जाँच कर लें कि इस प्रश्न-पत्र में मुद्रित प्रश्न 15 हैं।

  Please make sure that the printed in this question paper are it contains 15 questions.

- प्रश्न-पत्र में बालिनी हाथ की ओर दिखे गये कोड नम्बर तथा सेट को छात्र उत्तर-पुस्तिका के मुख्य-पृष्ठ पर लिखें।

  The Code No. and Set on the right side of the question paper should be written by the candidate on the front page of the answer-book.

- कुण्या प्रश्न का उत्तर लिखना गुरु करने से पहले, प्रश्न का क्रमांक अवश्य लिखें।

  Before beginning to answer a question, its Serial Number must be written.

- उत्तर-पुस्तिका के बीच में खाली पृष्ठ/ पृष्ठ न छोड़ें।

  Don't leave blank page/pages in your answer-book.

- उत्तर-पुस्तिका के अतिरिक्त कोई अन्य शीट नहीं मिलेगी। अतः आवश्यकतानुसार ही लिखें और लिखा उत्तर न करें।

  Except answer-book, no extra sheet will be given. Write to the point and do not strike the written answer.

- परीक्षार्थी अपना रोल नं 0 प्रश्न-पत्र पर अवश्य लिखें।

  Candidates must write their Roll Number on the question paper.
Before answering the questions, ensure that you have been supplied the correct and complete question paper, **no claim in this regard, will be entertained after examination.**

**General Instructions :**

(i) **All questions are compulsory.** Be very careful about cleanliness.

(ii) **Questions from 1 to 10 of Part-A carry 1 mark each.**

(iii) **All questions of Part-A must be answered with pen by candidates.** Such answers which are changed or cuttings have been done, shall be treated as cancelled.

(iv) **Questions from 11 to 13 of Part-B carry 5 marks each. Question No. 14 is from Solid Geometry carries 10 marks.**

(v) **Model Drawing carries 25 marks.**

**PART – A**

**Note:** Choose the **correct** alternatives for the answer of the following questions and write it in your answer-book:

1914/ (Set : D)
1. Each external angle of a regular pentagon is of:
   (a) 60°  (b) 108°  (c) 120°  (d) 180°

If the sides of a regular pentagon are extended in anti clock-wise direction, the sum of external angles made will be:
   (a) 180°  (b) 360°  (c) 72°  (d) 108°

2. If the sides of a regular pentagon are extended in anti clock-wise direction, the sum of external angles made will be:
   (a) 180°  (b) 360°  (c) 72°  (d) 108°

3. Radius is:
   (a) \( \frac{1}{4} \) of the diameter  
   (b) \( \frac{1}{3} \) of the diameter  
   (c) \( \frac{1}{2} \) of the diameter  
   (d) Double of the diameter

4. अनुपात की परिभाषा है:
   (a) दो मात्राओं का योग  
   (b) दो मात्राओं में अन्तर
Definition of proportion is:

(a) Sum of two quantities
(b) Difference between two quantities
(c) Relation between two quantities
(d) All are not correct

5. A cone is standing on its circular base on H. P. its elevation will look like:

(a) Triangle  
(b) Octagon
(c) Pentagon  
(d) Parellelogram

6. Plan (ऊपरी भाग) को किस पर बनाया जाता है?

(a) Plan को H.P. पर बनाया जाता है
(b) Plan को V.P. पर बनाया जाता है
(c) Plan को H.P. पर नहीं बनाया जाता है
(d) Plan को V.P. पर नहीं बनाया जाता है

Plan is made on which?
(a) Plan is made on H. P.
7. If a right-angled triangle is to be drawn on the paper, how many squares will be required?

(a) 4  (b) 8  (c) 2  (d) 16

How many sides of rectangle are touched by the circle inscribed in that rectangle?

(a) 4  (b) 8  (c) 2  (d) 16

8. A prism has a square base.

(a) Base contains 4 equal squares
(b) Base contains 5 equal squares
(c) Base contains 6 equal squares
(d) Base contains 2 equal squares

9. A cylinder is standing on its circular base on the paper. Its plan will appear like:

(a) Triangle  (b) Rectangle  (c) Square  (d) Circle

9. A cube is made of 12 equal squares.

(a) It contains 4 equal squares
(b) It contains 5 equal squares
(c) It contains 6 equal squares
(d) It contains 2 equal squares

10. A cylinder is standing on its circular base on the paper. Its plan will appear like:

(a) Triangle  (b) Rectangle  (c) Square  (d) Circle

10. A cube is made of 12 equal squares.
Which one of the following is not solid?
(a) Cylinder  (b) Cone  (c) Circle  (d) Cube

PART – B

11. Divide a given angle into four equal parts.

12. Describe a circle of a given radius which shall pass through a given point C and touch a given line AB.

13. Construct a regular hexagon on a given line AB (with compasses).

14. Draw the plan and elevation of an octagonal pyramid of 2 cm, side 5 cm height which stands on its octagonal base with two edges parallel to XY.

PART – C

15. आपके सामने “पूरे के डिब्बे पर कॉन का गिलास” रखा है। अपनी सीट से जैसा आपको दिखाई दे बैसा ही ड्राइंग शीट पर बनाकर किसी भी माध्यम से प्रकाश व छाया दिखायें। मॉडल बनाते
In front of you "Glass on Shoes Box" is kept, draw a model on your drawing sheet from your seat as you see the objects. Show lights and shades from any medium while drawing model Ratio-proportional, perspective view must be kept in the attention. Compass and scale should not be used in any case.