

116/23

Question Booklet Alpha Code

A

Question Booklet Sl. No.

Total Number of Questions : 100

Time : 90 Minutes

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator **IMMEDIATELY**.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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1. What is the area of A0 size drawing sheet ?
A) 0.00 square metre
B) 1.00 square metre
C) 2.00 square metre
D) 4.00 square metre

2. What is the use of french curves ?
A) To draw smooth curves
B) To draw irregular curves
C) To draw circles, ellipses, arcs
D) To write letters and numerals

3. What is the description of G2 in lines of symmetry ?
A) Chain thin
B) Chain thin double dashed
C) Dashed thick
D) Continuous thick

4. Which is a small shaped instrument of the drafting machine ?
A) T scale
B) Scale set
C) Mini drafter
D) Planimeter

5. What is the height in mm for title of drawing ?
A) 3, 4
B) 10, 12
C) 6, 8
D) 4, 5

6. Which of the following is not a linear scale ?
A) Plain scale
B) Diagonal scale
C) Scale of chord
D) Comparative scale

7. What is the line of intersection of the picture plane with ground plane ?
A) Station point
B) Picture plane
C) Ground plane
D) Ground line

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8. What is the sum of the interior angle and the corresponding external angle of a polygon ?
A) 0° B) 180° C) 90° D) 360°
9. What is the standard line thickness of the border line ?
A) 0.10 mm B) 0.60 mm C) 0.15 mm D) 0.20 mm
10. What is the point at which the conic cuts its axis ?
A) Locus B) Axis
C) Directrix D) Vertex
11. How many metres equals one nautical mile ?
A) 100 m B) 1000 m
C) 1674 m D) 1852 m
12. What is the length of one link in Engineers chain ?
A) 20 centimetres B) 30 centimetres
C) 1 foot D) $2 \frac{1}{16}$ feet
13. What is the angle which the needle makes with horizontal ?
A) Declination B) Dip
C) Bearing D) Local attraction
14. What is the name of triangle formed by joining the three ground points in plane table survey ?
A) Well conditioned triangle B) Equilateral triangle
C) Great triangle D) Scalene triangle
15. Which test is done to make the horizontal axis perpendicular to vertical axis of a theodolite ?
A) Plate level test B) Cross hair ring test
C) Collimation test D) Spire test

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23. What is meant by the departure of a line ?
- A) Projection onto the east-west meridian
 - B) Projection onto the north-east meridian
 - C) Projection onto the south-east meridian
 - D) Projection onto the north-west meridian
24. What is the term used for line joining the optical centre of the object glass and the centre of the eye piece ?
- A) Line of collimation
 - B) Horizontal line
 - C) Axis of telescope
 - D) Height of instrument
25. What is the basis of GPS ?
- A) Traversing
 - B) Triangulation
 - C) Resection
 - D) Radiation
26. Which of the following is the choice of co-ordinate for specifying the position of a point ?
- A) Latitude, departure and elevation
 - B) Southing, latitude, departure
 - C) Northing, southing, easting
 - D) Latitude, longitude and elevation
27. The shortcut key for undo last action in AutoCAD
- A) Ctrl+Z
 - B) Ctrl+Y
 - C) Ctrl+Shift+C
 - D) Ctrl+Shift+V
28. What is dpi in printing ?
- A) Dash per inch
 - B) Dots per inch
 - C) Dash printing ink
 - D) Dot printing ink
29. What factor mainly determines the quality of a monitor ?
- A) CPU
 - B) Colour
 - C) Resolution
 - D) Hard disk

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38. The purpose of this test is to assess the plasticity of lime
- A) Impurity test
 - B) Workability test
 - C) Plasticity test
 - D) Ball test
39. In a mortar, the binding material is
- A) Sand
 - B) Cement
 - C) Surkhi
 - D) Clay
40. The sand particles which sand pass through 1.5875 mm is sieves are known as
- A) Coarse sand
 - B) Gravelly sand
 - C) Mud sand
 - D) Fine sand
41. Grass or air bubbles are introduced into the plastic-cement mortar mix to produce a material with a cellular structure
- A) Cellular concrete
 - B) Light weight concrete
 - C) No fines concrete
 - D) Heavy weight concrete
42. Hot rolled deforming bars conforming to I.S. code
- A) 1139
 - B) 1785
 - C) 1566
 - D) 226
43. These piles are driven at an inclination to resist larger horizontal or inclined forces
- A) Sheet piles
 - B) Anchor piles
 - C) Fender piles
 - D) Batter piles
44. Minimum height 50 mm only three stones are to be used to make up the height of one course, mortar joint is 16 mm
- A) Coursed rubble (1st sort)
 - B) Coursed rubble (2nd sort)
 - C) Coursed rubble (3rd sort)
 - D) Coursed rubble (4th sort)
45. It prevent the tendency of stone joint to pull apart. This joint is used instead of dowel joint.
- A) Cramped joint
 - B) Plugged joint
 - C) Butt joint
 - D) Dowelled joint

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88. Cement paint is added in

- A) Water
- B) Thinner
- C) Spirit
- D) Turpentine

89. 1000 cubic feet = _____ litres.

- A) 28317
- B) 28.317
- C) 283.17
- D) 0.28317

90. Difference between circumference and diameter of a circle is 60 cm. Find the radius of the circle.

- A) 10 cm
- B) 12 cm
- C) 14 cm
- D) 16 cm

91. Unit of temperature in SI system

- A) Kelvin
- B) °Fahrenheit
- C) °Celcius
- D) Calorie

92. What is the height of a cylindrical tank of base area 154 Sq.cm and Volume 3080 Cub.mtr ?

- A) 50 m
- B) 40 m
- C) 30 m
- D) 20 m

93. How many spherical balls of 2 cm radius can be made from a sphere of 24 cm diameter ?

- A) 216 balls
- B) 316 balls
- C) 214 balls
- D) 314 balls

94. 1 HP = _____ Kg.m/s.

- A) 4500
- B) 33000
- C) 75
- D) 550

95. The ratio between the ultimate stress and the working stress is called

- A) Factor of safety
- B) Load Factor
- C) Young's Modulus
- D) Safe Stress

A

Space for Rough Work