

082/22

Question Booklet Alpha Code

A

	Question Booklet Sl. No.
--	--------------------------

A

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.

A

082/22

A

-2-

1. The following line is used for dimension line

A) Continuous thick	B) Continuous thin
C) Chain thin line	D) Short zig zag thin

2. In aligned system of dimensioning the dimension may be read from
 - A) Bottom or right hand edges
 - B) Bottom or left hand edge
 - C) Only from bottom
 - D) Only from left side

3. The length : width in case of an arrow head is

A) 1 : 1	B) 2 : 1	C) 3 : 1	D) 4 : 1
----------	----------	----------	----------

4. The internal angle of regular hexagon is _____ degree.

A) 72	B) 108	C) 120	D) 150
-------	--------	--------	--------

5. A line of 6 m is shown by 6 cm on a scale, its Representation Factor (RF) is

A) 1	B) 600	C) 1/600	D) 1/30
------	--------	----------	---------

6. A point p is above Horizontal Plane (HP) and in front of Vertical Plane (VP). The point is

A) First quadrant	B) Second quadrant
C) Third quadrant	D) Fourth quadrant

7. The section cut by a plane on a right circular cone are called as

A) Parabolic section	B) Conic sections
C) Elliptical section	D) Hyperbolic sections

8. In conics the _____ is revolving to form two anti parallel cones joined at the apex.

A) Ellipse	B) Circle
C) Generator	D) Parabola

9. If a plane is perpendicular to vertical and inclined to horizontal plane with 30 degrees then the vertical trace makes _____ of xy reference.

A) 30 degrees	B) 60 degrees	C) 150 degrees	D) 90 degrees
---------------	---------------	----------------	---------------

082/22

10. The preferred size of the drawing sheets is recommended by the
A) BIS B) ASME C) ASTM D) NIST
11. The error due to bad ranging is
A) Cumulative (+ve) B) Cumulative (-ve)
C) Compensating D) Cumulative (+ve and -ve)
12. The smallest length that can be drawn on a map is
A) 0.2 mm B) 0.5 mm
C) 10 mm D) 15 mm
13. The difference between the most probable value of a quantity and its observed value is
A) True error B) Weighted observation
C) Conditional error D) Residual error
14. The degree of precision required in survey work mainly depends upon the
A) Purpose of survey B) Area to be surveyed
C) Source of error D) Nature of the field
15. The relative horizontal positions of various points in surveying are determined by
A) Traversing B) Triangulation
C) Trigonometric levelling D) Reconnaissance survey
16. Prolongation of a chain line across an obstruction in chain survey is done by
A) Marking angular observation
B) Drawing perpendicular with a chain
C) Solution of triangle
D) All of the above
17. Geodimeter is based on
A) Propagation of modulated light waves
B) Propagation of infrared radiation
C) The visible light as carrier waves with frequency of the order 5×10^{14} Hz
D) High frequency radio waves

A

082/22

26. A polar array creates new objects
- A) In a horizontal pattern
 - B) In parallel pattern
 - C) In a circular pattern
 - D) In inclined pattern
27. How many point do you need to define for rectangle command ?
- A) One
 - B) Two
 - C) Three
 - D) Four
28. Which command creates a new object parallel to the object ?
- A) Trim
 - B) Cut
 - C) Offset
 - D) Rotate
29. Which command converts discrete object in polyline ?
- A) Join
 - B) Cut
 - C) Undo
 - D) Trim
30. Maximum length of a construction line
- A) No limit
 - B) 100 m
 - C) 1000 m
 - D) 10000 m
31. Functional key F9 stands for
- A) Help
 - B) Object snap
 - C) Dynamic UCS
 - D) Snap on/off
32. Extend is _____ type of command.
- A) Drawing command
 - B) Modify command
 - C) Both A) and B)
 - D) None of these
33. Command which is used to erase part of an object between two points
- A) Break
 - B) Trim
 - C) Mirror
 - D) Copy

A

34. Which of the following is an igneous rock ?
- A) Slate
B) Kankar
C) Gneiss
D) Basalt
35. Which test is used to determine the rate of wear of stones ?
- A) Crushing test
B) Attrition test
C) Impact test
D) Smith's test
36. In which process in the manufacturing of brick the clay is brought to a proper degree of hardness ?
- A) Weathering
B) Blending
C) Tempering
D) Moulding
37. Which of the following bricks are used as aggregate for concrete in foundation, floors etc. ?
- A) First class
B) Second class
C) Third class
D) Fourth class
38. The minimum compressive strength of lime mortar 1 : 3 with Class A lime at the end of 14 days is
- A) 1.75 N/mm²
B) 1.25 N/mm²
C) 2.8 N/mm²
D) 1.5 N/mm²
39. Burning of cement is carried out in
- A) Hoffman's kiln
B) Intermittent kiln
C) Rotary kiln
D) Clamp
40. Which of the following tiles are conical in shape ?
- A) Corrugated
B) Guna
C) Flemish
D) Flat
41. The alternate dry and wet conditions causes the development of _____ in timber.
- A) Brown rot
B) Dry rot
C) Heart rot
D) Wet rot

082/22

42. The size of pin knot is
A) Upto 6.50 mm dia.
B) Between 6.5 mm and 20 mm dia.
C) Between 20 mm and 40 mm dia.
D) Greater than 40 mm dia.
43. The weight of Rose wood after seasoning is
A) 4500 N/m³
B) 6400 N/m³
C) 6500 N/m³
D) 7900 N/m³
44. Recommended slump of concrete for normal RCC work is
A) 40 – 50 mm
B) 70 – 80 mm
C) 80 – 150 mm
D) 90 – 100 mm
45. The nominal mix correspond to M7.5 Grade concrete is
A) 1 : 5 : 10
B) 1 : 4 : 8
C) 1 : 3 : 6
D) 1 : 2 : 4
46. Permissible stress in compression for M20 grade concrete is
A) 3 N/mm²
B) 5 N/mm²
C) 7 N/mm²
D) 9 N/mm²
47. Maximum Safe Bearing Capacity of soft rock in tonne/m² is
A) 45
B) 55
C) 65
D) 75
48. Which of the following foundation is used when hard bearing stratum is at a greater depth ?
A) Grillage
B) Raft
C) Column
D) Pile
49. In which bond every header is centrally supported over a stretcher below it ?
A) English bond
B) Flemish bond
C) Monk bond
D) Dutch bond

A

50. A projecting stone which is usually provided to serve as support for joist, Truss etc.
- A) Corbel
B) Cornice
C) Coping
D) Jamb
51. Which of the following flooring is suitable for Warehouses, Stores, Godowns etc. ?
- A) Marble
B) Tile
C) Brick
D) Terrazzo
52. The span of a couple roof is limited to
- A) 2.5 m
B) 3.6 m
C) 4.2 m
D) 4.8 m
53. Which of the following is the most common material used as vehicle in a paint ?
- A) Linseed oil
B) Tung oil
C) Poppy oil
D) Nut oil
54. An intermediate floor in any storey over hanging and over looking a floor beneath is
- A) Balcony
B) Porch
C) Loft
D) Mezzanine floor
55. The site plan shall be drawn to a scale not less than
- A) 1 : 100
B) 1 : 200
C) 1 : 300
D) 1 : 400
56. The area of bathroom shall not be less than
- A) 1.5 m²
B) 1.75 m²
C) 2 m²
D) 2.25 m²
57. Minimum width of ramp is
- A) 90 cm
B) 100 cm
C) 120 cm
D) 150 cm
58. How many percentage of the estimated cost is provided for work charged establishment ?
- A) 1 – 1½%
B) 1½ – 2%
C) 2 – 2½%
D) 2½ – 3%

082/22

89. SI unit of force is
A) Newton
B) Erg
C) Dyne
D) Joule
90. A body of mass 10 Kg is moving with a velocity of 2 m/s, then kinetic energy is _____ Kgm/s.
A) 6
B) 14
C) 40
D) 20
91. If a car travels a distance of 30 m in 10 second, the speed of the car is
A) 3 m/s^2
B) 3 m/s
C) 300 m/s
D) 300 m/s^2
92. If the co-efficient of friction (μ) is 0.3 and normal reaction (R) is 10 N, then the frictional force (F) is
A) 3 N
B) 30 N
C) 10.3 N
D) 9.7 N
93. The stress developed, if a force of 250 N is applied on a rod of area of cross section 50 m^2 is _____ N/m^2 .
A) 75
B) 50
C) 12500
D) 5
94. Mechanical Advantage (MA) of a simple machine is 3 and the load (W) is 9 Kg, then the effort (P) applied is
A) 3 Kg
B) 9 Kg
C) 12 Kg
D) 27 Kg
95. In a simple machine, the ratio of distance moved by the effort to the distance moved by the load is called
A) Mechanical Advantage
B) Velocity ratio
C) Efficiency
D) Load arm

A

082/22

Space for Rough Work



A