

001/2026

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total No. of questions : 100

Time : 1 Hour 30 Minutes

Maximum : 100 Marks

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 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.

001/2026

Maximum : 100 marks

Time : 1 hour and 30 minutes

1. Which solid object has 12 equal pentagons faces?
(A) Octahedron (B) Dodecahedron
(C) Icosahedron (D) Hexahedron
2. M4 designated scale set has _____ scale.
(A) 1 : 10 (B) 1 : 500
(C) 1 : 50 (D) 1 : 400
3. What type of line is used to show trajectories?
(A) Dash line (B) Chain line
(C) Zig zag line (D) None of the above
4. Isometric scale is a for shortening of about :
(A) 84% (B) 88%
(C) 122.51% (D) 82%
5. Commercial buildings are under _____ type of group.
(A) Group D (B) Group C
(C) Group H (D) Group F
6. A line perpendicular to the transverse axis of the hyperbola and passing through its mid point :
(A) Transverse axis (B) Conjugated axis
(C) Tangent line (D) None of the above
7. A four sided figure having no side parallel :
(A) Trapezoid (B) Trapezium
(C) Rhombus (D) None of the above
8. Which of the following is not the parallel projections?
(A) Orthographic (B) Oblique projection
(C) Axonometric projection (D) None of the above

9. What is the conversion of 3000 mm in 1 : 25 scale?
(A) 12 cm (B) 12 mm
(C) 75 mm (D) 75 cm
10. Occupant load of educational building, in square meters per person :
(A) 1.5 (B) 12.5
(C) 15 (D) 4
11. The weight of 12 mm round steel arch is _____ kg/m?
(A) 25 (B) 20
(C) 30 (D) 32
12. The quantity of cement required for 1 : 2 : 4 concrete 10 cum is :
(A) 2.2 cum (B) 1.5 cum
(C) 2.4 cum (D) 2.3 cum
13. The timber required for panelled door shutter 4 cm, thick for 100 sq.m is :
(A) 4.5 cum (B) 4 cum
(C) 45 cum (D) 3 cum
14. What is the defect liability period in contract document normally refers to?
(A) 6 months to 1 year (B) 3 months to 6 months
(C) 1 year to 2 years (D) None of the above
15. The form used in public works for measurement book is :
(A) Form 25 (B) Form 20
(C) Form 23 (D) Form 21
16. What is the period suggested for the removal of form work of R.C.C columns and walls?
(A) 20 days (B) 8 days
(C) 7 days (D) 14 days
17. The quantity of wet mortar required for a 12 mm thick 1 : 6 plastering is :
(A) 2 cum (B) 1.5 cum
(C) 2.5 cum (D) 2.2 cum
18. What is the soaking time of bricks for brick work?
(A) 12 hrs (B) 7 hrs
(C) 6 hrs (D) 23 hrs

19. What is the hand rail height of fire stair?
(A) 90 cm (B) 80 cm
(C) 120 cm (D) None of the above
20. If the amount of annuity brings at same future date after a number of years, it is known as :
(A) Perpetual annuity (B) Annuity certain
(C) Annuity due (D) Deferred annuity
21. The property of a material to absorb water vapour from the air is called :
(A) Permeability (B) Hygroscopicity
(C) Water Absorption (D) Durability
22. What is the process of immersing timber in a solution of suitable salt to season it called?
(A) Water seasoning (B) Electrical seasoning
(C) Kiln seasoning (D) Chemical seasoning
23. Which property of stone is important for docks, harbours, and gravity dams?
(A) Hardness (B) Specific gravity
(C) Porosity (D) Dressing
24. _____ are used to reduce the quantity of mixing water required to produce concrete of a certain slump, reduce water cement ratio, reduce cement content or increase slump.
(A) Water reducing admixtures (B) Retarding Admixtures
(C) Air Entraining admixtures (D) None of these
25. Bricks produced by plastic clay machines are also called :
(A) Table moulded bricks (B) Wire cut bricks
(C) Pressed bricks (D) Clamp bricks
26. The volume of one bag of cement is :
(A) 0.0434 cu.m (B) 0.0609 cu.m
(C) 0.0214 cu.m (D) 0.0347 cu.m
27. Which of the following is a use of lime in the steel industry?
(A) For plastering walls
(B) As a flux in the manufacture of steel
(C) For knotting timber before painting
(D) For stabilizing soils

28. Sand passing through a sieve with clear opening of 1.5875 mm is known as :
(A) Coarse sand (B) Gravelly sand
(C) Fine Sand (D) None of these
29. What is the recommended slump for concrete used for canal lining?
(A) 20 to 40 mm (B) 70 to 80 mm
(C) 40 to 50 mm (D) 90 to 100 mm
30. What is the purpose of vehicle or carrier in paint?
(A) To provide colour to paint
(B) To give the paint a glossy finish
(C) To hold the ingredients of a paint in a liquid suspension
(D) To speed up the drying process
31. _____ type of tiles are used in kitchen floors as ordinary ceramic tiles are brittle and full of any heavy objects is liable to chip the ceramic.
(A) Porcelain tiles (B) Fully vitrified tiles
(C) Glazed ceramic tiles (D) Clay ceiling tiles
32. What is the percentage of Tin in Gun metal?
(A) 18% (B) 10%
(C) 2% (D) 94%
33. The lower surface of the brick when laid flat is known as :
(A) Stretcher (B) Bed
(C) Lap (D) Header
34. The narrow vertical board used to make formwork for circular columns is known as :
(A) Staves (B) Mould
(C) Brace (D) Yoke
35. Name the masonry in which stones are used as they available from the quarry and the course is not regular :
(A) Uncoursed masonry (B) Coursed masonry
(C) Dry rubble masonry (D) Random rubble masonry
36. Name the Spread footing used for a wall :
(A) Strap footing (B) Isolated footing
(C) Pad footing (D) Strip footing

37. The double flying shore is used when the distance between the adjacent parallel walls is :
- (A) 4 - 8 m (B) 6 - 9 m
(C) 9 - 12 m (D) 9 - 18 m
38. Name the arch in which a semi circular portion is attached at the top of two vertical portion :
- (A) Tudor arch (B) Florentine arch
(C) Stilted arch (D) Relieving arch
39. Which pile used to protect water front structures against the impact from ship or other floating objects?
- (A) Fender pile (B) Anchor pile
(C) Sheet pile (D) Uplift pile
40. What is the maximum height at which a Testle scaffolding can be adopted from the surface?
- (A) 4 m (B) 5 m
(C) 3 m (D) 10 m
41. Which of the following floor is used for swimming pool?
- (A) Mosaic floor (B) Brick floor
(C) Flag stone floor (D) Asphalt floor
42. The double joist timber floor is adopted up to a span of :
- (A) 3.6 m (B) 4.2 m
(C) 7.5 m (D) 12 m
43. Name the stair that do not require Newel Post :
- (A) Spiral stair (B) Geometrical stair
(C) Open newel stair (D) Dog legged stair
44. A trussed roof is used when the span exceeds :
- (A) 3.6 m (B) 12 m
(C) 4.2 m (D) 4.8 m
45. What is the recommended slump of concrete used for road construction?
- (A) 20 - 40 (B) 40 - 50
(C) 90 - 100 (D) 70 - 80

46. What is the Lap length of vertical bars in column?
- (A) $12 \times \text{dia of bar}$ (B) $24 \times \text{dia of bar}$
 (C) $9 \times \text{dia of bar}$ (D) $4 \times \text{dia of bar}$
47. The concrete mix M25 to M55 are known as :
- (A) Ordinary concrete (B) Standard concrete
 (C) Lean concrete (D) High Strength concrete
48. What is the minimum number of bars provided in a beam as main bars?
- (A) 4 (B) 3
 (C) 2 (D) 1
49. What is the name of the rivet with round head?
- (A) Universal head (B) Pan head
 (C) Counter sunk head (D) Button head
50. Name the stair arrangement in which the steps are formed as treads only :
- (A) Cantilever tread slab step
 (B) Built up step
 (C) Spandril step
 (D) Rectangular step
51. The portion of style which decreases its width at lock level are called :
- (A) Lock rail (B) Gun stock
 (C) Sash bar (D) Panel
52. Name the windows fixed on the flat roof to provide light to the inner portion of house :
- (A) Gable window
 (B) Clear storey window
 (C) Lantern window
 (D) Sky light
53. In which area the crop is grown at a particular time or crop season?
- (A) Culturable Incultivated Area
 (B) Cultivated Area
 (C) Culturable Cultivated Area
 (D) Catchment Area

54. Which is the time between first watering of a crop at the time of sowing to its last watering before harvesting?
- (A) Delta (B) Base period
(C) Crop period (D) Duty
55. Which is the Season in which the crops are sowing autumn and they are harvested in spring. (1st October to 31st March)?
- (A) Rabi season (B) Crop season
(C) Kharif season (D) Rain season
56. Which canal is water directly from the river?
- (A) Branch Canal
(B) Distributary Canal
(C) Minor Distributary Canal
(D) Main Canal
57. In which hydraulic structure is drainage taken over the irrigation canal?
- (A) Super passage (B) Aqueduct
(C) Canal siphon (D) Siphon super passage
58. In which pipes are used to water from storage reservoir to power house?
- (A) Surge tank (B) Soil pipe
(C) Penstock (D) Turbines
59. The ground is considered as level, if the slope of the ground is up to :
- (A) 3° (B) 4°
(C) 5° (D) 10°
60. If the survey is of only a temporary character and be finished in a single day, survey stations should be marked on the ground using :
- (A) Wooden pegs (B) Ranging rods
(C) Spikes (D) Plumb bob
61. If the lines are on different sides of the different meridians, the included angle is :
- (A) 180° - difference of the two reduced bearings
(B) Difference of the two reduced bearings
(C) Sum of the two reduced bearings
(D) 180° - sum of the two reduced bearings

62. The bearing of a line AB is $152^{\circ}20'$ and the angle ABC is $124^{\circ}38'$. What is the bearing of BC?
- (A) $90^{\circ}58'$ (B) $96^{\circ}58'$
(C) $95^{\circ}58'$ (D) $92^{\circ}58'$
63. The index arm and the clipping arm are together known as :
- (A) T - frame (B) Standards
(C) A - frame (D) U - frame
64. In theodolite, centering is done by means of :
- (A) Plumbing fork
(B) U - frame
(C) Plumb Bob
(D) Rack and Pinion arrangement
65. The method used for establishing the instrument stations only :
- (A) Radiation (B) Traversing
(C) Resection (D) Intersection
66. The distance of the change point from the level shouldn't exceed :
- (A) 50 m (B) 100 m
(C) 200 m (D) 1000 m
67. For the preparation of working profile, the datum and ground lines are drawn in :
- (A) Black (B) Red
(C) Blue (D) Yellow
68. The process of erecting the stakes at a given elevation or gradient is called :
- (A) Contour gradient (B) Grade stakes
(C) Shooting Gradient (D) Setting grade stakes
69. Calculate the volume of earth work for a proposed road of formation width 10 m. The length of the road is 60 m. The ground is level transversely with side slope as $1\frac{1}{2} : 1$ and height at centre is 4 m :
- (A) 3040 m^3 (B) 3280 m^3
(C) 3480 m^3 (D) 3840 m^3
70. Curves which are provided on roads or railways for easy change of grade called :
- (A) Vertical curve (B) Horizontal curve
(C) Compound curve (D) Reverse curve

71. Which instrument is the combination of Electronic Theodolite and Electronic Distance Meter?
- (A) Tacheometer (B) Total Station
(C) Digital Theodolite (D) Transit Theodolite
72. How many main elements are there in GPS system?
- (A) 2 (B) 3
(C) 4 (D) 5
73. In which year Autocad was first introduced?
- (A) 1983 (B) 1980
(C) 1982 (D) 1981
74. Which key is used to cancel or to ignore the entry of command that just entered?
- (A) Tab key (B) Enter key
(C) Esc key (D) Shift key
75. Which tool bar help us quicker way to access the general controls and setting for Autocad?
- (A) Menu bar (B) Title bar
(C) Standard tool bar (D) Properties tool bar
76. The function key used for 'save as' function is :
- (A) F11 (B) F12
(C) F10 (D) F2
77. Which short cut key is used for on / off the 'object properties' window?
- (A) Ctrl+6 (B) Ctrl+1
(C) Ctrl+N (D) Ctrl+K
78. Which command is used to make multiple copy of an object in a defined angle and exact number?
- (A) Mirror (B) Copy
(C) Move (D) Array
79. Which command is used to make a 3d solid from respective closed 2D drawing?
- (A) Mesh command (B) Surface command
(C) Extrude command (D) Slice command

80. What is the command of Layout for plotting?
- (A) LA (B) LT
(C) L (D) LO
81. Convert 2 ounce in to grams :
- (A) 28.30 (B) 56.70
(C) 28.35 (D) 50.50
82. The capacity for doing work is called :
- (A) Power (B) Force
(C) Energy (D) Both (A) and (B)
83. Which of the following statement/s is/are correct?
- (i) The ratio of Working stress to Ultimate stress is called Factor of safety
(ii) Unit of Youngs Modulus is same that of Stress
(iii) The ratio of Linear strain to Lateral strain is called Poissons ratio
(iv) The ratio of change in length to the original length is called Strain
- (A) Only (ii)
(B) Only (iv)
(C) Both (ii) and (iv)
(D) All are correct
84. Which of the following statement/s is/are correct?
- (i) Nut cracker is an example of first class lever
(ii) Seesaw is an example of second class lever
(iii) In Crow bar fulcrum is located in between the input effort and output load
(iv) Fishing rod is an example of third class lever
- (A) Only (ii)
(B) Only (iv)
(C) Both (iii) and (iv)
(D) Both (i) and (ii)
85. $\sin A \times \operatorname{cosec} A =$ _____ :
- (A) Less than 1 (B) Equal to 1
(C) Greater than 1 (D) Zero

86. Ergs per second is the S.I. unit of :
(A) Power (B) Work
(C) Energy (D) Velocity
87. The maximum super elevation on hill road should not exceed :
(A) 6 (B) 4
(C) 10 (D) 7
88. What is the minimum distance between the specified position on a bridge?
(A) Clearance (B) Afflux
(C) Bearings (D) Water way
89. A bridge is called culvert if its span is up to :
(A) 10 (B) 6
(C) 8 (D) 12
90. What is the distance between rails in a broad gauge on the basis of width of the track of Indian railways?
(A) 1.856 m (B) 1.676 m
(C) 2.000 m (D) .762 m
91. The railway line was established during the regin of which Governor-General in India :
(A) Lord Mountbatten
(B) Lord Curzon
(C) Lord Mayo
(D) Lord Dalhousie
92. The slope provided in the longitudinal direction of the road is called :
(A) Gradient (B) Super elevation
(C) Camber (D) Drainage
93. Which is the main characteristics for an ideal site for a bridge?
(A) Whirls and cross currents
(B) Reach of stream should be straight
(C) Stream should be broad
(D) Built up areas

94. The boundaries between the pavement and foot path is :
(A) Right of way (B) Formation width
(C) Kerbs (D) Camber
95. A flexible connection between the water main and the service pipe made of material like lead is called :
(A) Goose neck (B) Ferrule
(C) Vent pipe (D) Stop cock
96. Zeolite process in water treatment is used for :
(A) Disinfection
(B) Removal of permanent hardness
(C) Sedimentation
(D) Water softening
97. What is the chief source of all water supplies?
(A) Surface sources (B) Sub surface sources
(C) Precipitation (D) Ground sources
98. A lamp hole is used to :
(A) Avoid unnecessary steep gradient in a sewer
(B) Detect the obstruction in the sewer
(C) Provide access to working chamber
(D) Admit clear rain water into combined sewer
99. The organic matter deposited at the bottom of the sedimentation tank during the treatment of the sewage is called :
(A) Sewerage (B) Garbage
(C) Refuse (D) Sludge
100. A pipe which is installed in the house drainage to preserve the water of traps is known as :
(A) Vent Pipe (B) Soil Pipe
(C) Anti-siphonage pipe (D) Fixture drain
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SPACE FOR ROUGH WORK

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