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Question Booklet Alpha Code

A

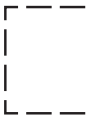
	Question Booklet Sl. No.
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Total Number of Questions : 100	Time : 75 Minutes
Maximum Marks : 100	

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. The ratio of the number of days the canal has actually run to the number of days of irrigation period
 - A) Time factor
 - B) Capacity factor
 - C) Outlet factor
 - D) Open discharge

2. The property of liquid by virtue of which liquid undergo a change in volume with the change in pressure is called
 - A) Viscosity
 - B) Compressibility
 - C) Capillarity
 - D) Surface tension

3. To make out an estimate for a work which datas are necessary
 - A) Drawing (Plan, Section etc.)
 - B) Specifications
 - C) Rates
 - D) All of the above

4. Maximum safe bearing capacity of hard rocks without defects and laminations
 - A) 330 t/m²
 - B) 330 kg/cm²
 - C) 250 t/m²
 - D) 350 t/m²

5. The liquid medium used in oil paint
 - A) Linseed oil
 - B) Alcohol
 - C) Thinner
 - D) Turpentine oil

6. The water content at which plants can no longer extracts sufficient water from the soil for its growth
 - A) Available moisture
 - B) Readily available moisture
 - C) Field capacity
 - D) Wilting co-efficient

7. It is an impermeable formation which neither contains water nor transmits any water
 - A) Aquifer
 - B) Aquiclude
 - C) Aquifuge
 - D) Aqueduct

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8. A fresh detailed estimate of the additional works in addition to the original estimate is
A) Supplementary estimate B) Revised estimate
C) Annual repair estimate D) Maintenance estimate
9. Poise is the unit of viscosity in CGS system of units, therefore one poise is equal to
A) 1 Ns/m² B) 0.1 Ns/m²
C) 10 Ns/m² D) 100 Ns/m²
10. For work charge establishment provided in the percentage of estimated cost is
A) 1½ to 2% B) 3% to 5%
C) 1% to 1½% D) 20%
11. According to Indian Standard Specifications, the full strength of concrete is achieved after
A) 7 days B) 14 days
C) 28 days D) 21 days
12. The expansion in Portland cement can be tested by
A) Fineness test B) Soundness test
C) Setting time test D) Consistency test
13. Hydraulic lime generates _____ heat as compared to fat lime.
A) Same B) Less
C) More D) Equal
14. Unit of measurement of bending and binding of steel reinforcement in MKS system
A) Kgm B) Tonne
C) Quintel D) Metre
15. Density of mild steel is equal to
A) 7850 kg/Cu.m B) 7850 kg/m
C) 78.5 g/Cu.m D) 78.5 kg/Cu.m

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30. The co-efficient of discharge for an external mouthpiece
 A) 0.855 B) 0.755 C) 0.555 D) 0.655
31. Any hydraulic structure which supplies water to the off taking canal is called
 A) Storage head works B) Reservoir
 C) Head works D) Diversion head works
32. The hydraulic structure constructed across a river to store water on its upstream side
 A) Reservoir B) Head works
 C) Storage tanks D) Dams
33. The efficiency of power transmission through a pipe is (H – specific weight, h_f – head loss due to friction in the pipe)
 A) $\frac{H-h_f}{H}$ B) $\frac{H+h_f}{H}$
 C) $\frac{H}{H-h_f}$ D) $\frac{H}{H+h_f}$
34. The total cost of construction including all expenditure incurred from the beginning upto the end of completion of work is called
 A) Book value B) Capital cost
 C) Prime cost D) Approximate cost
35. A swing door is provided with special hinges known as
 A) Garnet hinge
 B) Rising butt hinge
 C) Counter flap hinge
 D) Double action spring hinge
36. The major problems of upper floors are
 A) Strength B) Stability
 C) Both (A) and (B) D) Dampness

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53. The coping between apex and skew corbel in case of a gable wall is known as
A) Stoolings
B) Springer
C) Finial
D) Kneeler
54. One m³ of brick earth is about
A) 1800 kg
B) 2200 kg
C) 1200 kg
D) 1500 kg
55. The perpendicular distance between the intrados and extrados of an arch is called
A) Depth of an arch
B) Pitch of an arch
C) Thickness of an arch
D) Width of an arch
56. T-square are designated by its
A) Breadth
B) Overall length
C) Blade length
D) Width of head
57. What is the minimum width of border on left side of A₀ and A₁ drawing sheet ?
A) 26 mm
B) 24 mm
C) 22 mm
D) 20 mm
58. Inner details of an object not visible from outside are represented by
A) Visible outlines
B) Dimension lines
C) Dashed lines
D) Centre lines
59. How the dimensions can be read in aligned system of dimension technique ?
A) Left hand edge of drawing sheet
B) Right hand edge of drawing sheet
C) Top to bottom
D) All of the above
60. The length of arrow head is generally
A) Same as width
B) Greater than width
C) 3 times its width
D) Two times its width

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76. The contour interval is inversely proportional to
- A) Scale of the map
 - B) Fund available
 - C) Purpose of map
 - D) All of the above
77. In a theodolite the line of collimation is
- A) Parallel to the axis of plate level
 - B) Parallel to the vertical axis
 - C) Perpendicular to the trunnion axis
 - D) Parallel to the horizontal axis
78. For railways and highway works, the angle measured for the setting out work is
- A) Included angle
 - B) Exterior angle
 - C) Deflection angle
 - D) Horizontal angle
79. What is the use of optical plummet in total station ?
- A) Focussing
 - B) Orientation
 - C) Precise levelling
 - D) Precise centering
80. Who developed the GPS ?
- A) USA
 - B) India
 - C) Russia
 - D) Italy
81. Auto CAD is a
- A) Drafting software
 - B) Hardware
 - C) Input device
 - D) Antivirus software
82. Which mode is allowed the user to draw 90° straight line ?
- A) Osnap
 - B) Ortho
 - C) Linear
 - D) Polar
83. Which of the following file extensions cannot open in autocad ?
- A) dwg
 - B) dxf
 - C) dot
 - D) dws

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84. Which shortcut key does the work of ortho ?
A) F6 B) F7 C) F8 D) F9
85. _____ command allows to shrink or enlarge the already existing drawing about a base point.
A) Scale B) Stretch
C) Mirror D) Explode
86. The drawing area can be defined by using _____ command.
A) Layers B) Limits
C) Dimension D) Hatch
87. The shortcut key for copy is
A) Ctrl + C B) Ctrl + Z
C) Ctrl + V D) Ctrl + d
88. The printing characteristic 'dpi' stands for
A) Degree of printing B) Dot printing index
C) Disc printing index D) Dots per inch
89. What is the value of one Horse Power (HP) in Metric system ?
A) 750 watts B) 746 watts
C) 735.5 watts D) 735 watts
90. Which is equivalent to one Pascal ?
A) 1N/mm^2 B) 1N/cm^2 C) 1N/dm^2 D) 1N/m^2
91. Kinetic energy K.E. =
A) mV^2 B) $\frac{1}{2}mV^2$ C) mV D) mgh
92. The surface area of a sphere is $36\pi\text{cm}^2$ and then the volume of the sphere is
A) $12\pi\text{cm}^3$ B) $18\pi\text{cm}^3$
C) $72\pi\text{cm}^3$ D) $36\pi\text{cm}^3$

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Space for Rough Work



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