

122/23

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.

1. Gross income – outgoings =
A) Net income
B) Net return
C) Both A) and B)
D) None of these
2. A semi Corrugated or Tafford sheet has a standard width of
A) 0.9 m
B) 1m
C) 1.05 m
D) 1.10 m
3. Painting coefficient for partly panelled and partly glazed or gauged doors and windows
A) 2 ¼ times one surface area for both sides
B) 1 time one surface area for both sides
C) 3 times one surface area for both sides
D) 2 times one surface area for both sides
4. In measuring formwork, no deduction is made for opening upto (IS 1200 – Part 5 1982)
A) 1 sq.m
B) 0.5 sq.m
C) 0.4 sq.m
D) 0.7 sq.m
5. _____ estimate is required to decide the financial position and policy for administrative sanction by the competent administrative authority.
A) Detailed estimate
B) Revised estimate
C) Approximate estimate
D) All of the above
6. Quantity of cement required for one unit of RCC 1 : 1.5 : 3
A) 3.3 kg
B) 3.8 kg
C) 4.32 kg
D) 4.83 kg
7. The multiplying factor which when multiplied by the net income gives capitalized value of the property of the present time
A) Year's purchase
B) Sinking fund
C) Capital cost
D) Rate of interest

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22. Which of the following constituents imparts the uniform shape to the bricks ?
- A) Lime
B) Oxide of iron
C) Silica
D) Alumina
23. The commonly used lime in white washing
- A) Fat lime
B) Hydraulic lime
C) Lean lime
D) Quick lime
24. How many operations are involved in the manufacture of fat lime ?
- A) 1
B) 2
C) 3
D) 4
25. The defect which is denoted by the presence of original rounded surface on a manufactured piece of timber is known as
- A) Chip mark
B) Torn grain
C) Wane
D) Diagonal grain
26. Aldural is also known as
- A) Aluminium bronze
B) Alclad
C) Delta metal
D) Autoclave
27. The name of burning zone of blast furnace
- A) Hearth
B) Throat
C) Bosh
D) Tuyeres
28. Which type of water reducing admixtures usually retard the setting time of concrete by one to three hours ?
- A) Type A
B) Type B
C) Type C
D) Type D
29. Recommended Slump of normal RCC work
- A) 20 to 40 mm
B) 80 to 150 mm
C) 40 to 50 mm
D) 90 to 100 mm

46. Suitable span for a double joint timber floor is
- A) 3.60 m to 7.50 m B) 8 m to 12 m
C) 12 m to 14 m D) 14 m to 16 m
47. Number of Mangalore tiles required for covering one square meter of roof area is
- A) 50 B) 15 C) 40 D) 25
48. Which pile is to be preferred for foundation in black cotton soil ?
- A) Franke pile B) Under reamed pile
C) Fender pile D) Friction pile
49. A flexible damp proofing material which is easy to lay and available in rolls
- A) Bricks B) Stones
C) Hot bitumen D) Bituminous felt
50. The inclined member of a stair which supports the ends of steps is known as
- A) Tread B) Winder
C) String D) Walking line
51. How much yield stress does a twisted bar have more than an ordinary mild steel bar ?
- A) 50% B) 10%
C) 20% D) 30%
52. In a cantilever beam the main reinforcement should be provided in
- A) Top at free end of beam B) Middle at free end of beam
C) Top at fixed end of beam D) Bottom at free end of beam
53. Type of survey used to determine different strata of earth's crust is
- A) Geological survey B) Mine survey
C) Topographical survey D) Geodetic surveying

69. The command used in autocad to erase a part of an object between two points is called
- A) Chamfer
 - B) Break
 - C) Extend
 - D) Mirror
70. What is the use of function key F8 in autocad ?
- A) Osnap
 - B) Ortho
 - C) Print
 - D) Save as
71. What is the use of shortcut key 'M' ?
- A) Multi text
 - B) Modify text
 - C) Move
 - D) Offset
72. In autocad the method for indicating point locations using existing drawing objects as references is called
- A) Object snap
 - B) Aperture
 - C) Array
 - D) Offset
73. In autocad the origin of drawing is
- A) 1, 1
 - B) 1, 0
 - C) 0, 0
 - D) 0, 1
74. Which command is used to copy the properties from one object to one or more objects ?
- A) Match properties
 - B) Copy
 - C) Property palette
 - D) Grid
75. What denotes letter K in MKS system ?
- A) Kilogram
 - B) Kilometer
 - C) Kelvin
 - D) Millimetre

76. What is the ratio of power output to power input ?
A) Work
B) Efficiency
C) Acceleration
D) Energy
77. What is the name of fixed or supporting point of a lever ?
A) Mechanical advantage
B) Effort
C) Load
D) Fulcrum
78. When θ increases, sine value
A) Increases
B) Decreases
C) Constant
D) 0
79. Curved area of cylinder is
A) $\frac{4}{3} \pi r^3$
B) $2\pi r$
C) $2\pi rh$
D) $2h(l+b)$
80. How many millimetres are there in 1 inch ?
A) 2.54 mm
B) 25.4 mm
C) 24.5 mm
D) 2.45 mm
81. The irrigation capacity of unit quantity of water
A) delta
B) duty
C) base period
D) crop period
82. The canal aligned at right angles to the Contour of a Country is known as
A) side slope canal
B) contour canal
C) water shed canal
D) branch canal
83. The season in which the crops are sown by the beginning of south - west monsoon and they are harvested in autumn
A) rabi
B) kharif
C) both A) and B)
D) none of these
84. The device which is placed in front of head regulator for silt removal is
A) weir
B) barrage
C) silt excluder
D) silt extractor

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85. With reference to hydro power station, the graphical representation of discharge and time is
- A) hyetograph
B) load duration curve
C) load curve
D) hydrograph
86. Check flooding method of irrigation is used for
- A) closed growing crops
B) crops which can stand in undulation of water for some time
C) tracks with flat gradients
D) none of these
87. On the recommendations of Indian Road Congress, the ruling gradient in plains, is
- A) 1 in 15
B) 1 in 20
C) 1 in 30
D) 1 in 45
88. A curve whose radius gradually changes from an infinite value to a finite value or vice-versa is called
- A) circular curve
B) transition curve
C) simple curve
D) compound curve
89. The stopping sight distance depends upon the
- A) reaction time
B) braking time
C) speed of vehicle
D) all of these
90. The standard size of wooden sleepers on broad gauge railway track
- A) 152 cm × 15 cm × 10 cm
B) 183 cm × 20 cm × 11 cm
C) 275 cm × 25 cm × 13 cm
D) None of these
91. Minimum packing space provided between two sleepers is
- A) 250 mm to 300 mm
B) 350 mm to 400 mm
C) 300 mm to 350 mm
D) None of these
92. The width of top portion of a flat - footed rail, is
- A) 66.68 mm
B) 69.80 mm
C) 73.25 mm
D) 75.87 mm

A

93. Skew bridge has an angle
A) 0 degree
B) 90 degree
C) both A) and B)
D) other than right angle
94. Which is the temporary pier made in the river bed ?
A) kerb
B) scuppers
C) abutment
D) cribs
95. The effluent from the septic tank is discharged into
A) drainage
B) oxidation pond
C) sewer
D) soak pit
96. Permanent hardness of water can be removed by
A) adding alum
B) adding chlorine
C) zeolite process
D) boiling
97. The pipe through which liquid waste carrying human excreta flows.
A) waste pipe
B) soil pipe
C) vent pipe
D) all of these
98. In India which type of sewer system are preferred ?
A) partial
B) combined
C) direct
D) separate
99. Garbage is a
A) semi liquid waste
B) liquid waste
C) dry waste
D) none of these
100. Design period for slow sand filters as suggested
A) 30 years
B) 50 years
C) 25 years
D) 10 years
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Space for Rough Work