

109/2025-E

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

151029

Total No. of questions : 100

Time : 75 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 $\frac{1}{3}$ 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.

SEAL

109/2025-E

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. One link of the metric chain is equal to :
(A) 20 cm (B) 30 cm
(C) 20 m (D) 0.2 cm
2. A line drawn against the working edge of alidade is called :
(A) Tie line (B) Check line
(C) Fiducial edge (D) Base line
3. Convert the whole circle bearing $170^{\circ}12'$ to quadrantal bearing :
(A) N $22^{\circ}30'$ E (B) S $9^{\circ}48'$ E
(C) S $31^{\circ}54'$ E (D) N $32^{\circ}36'$ W
4. The process of keeping instrument exactly over the station is called
(A) Centering (B) Levelling
(C) Focusing the prism (D) All of the above
5. The Engineers chain is :
(A) 66 feet long and 100 links (B) 100 feet long and 100 links
(C) 33 feet long and 16 links (D) None of the above
6. The science of acquiring information about earth surface without physical contact with the surface is called :
(A) Chain surveying (B) Plane table surveying
(C) Remote sensing (D) Compass surveying
7. The stone formed by cooling of molten earth :
(A) Sedimentary rocks (B) Metamorphic rocks
(C) Igneous rocks (D) All of the above
8. The brick earth has alumina content of :
(A) 20% to 30% by weight (B) 30 % to 50% by weight
(C) 20% to 35% by weight (D) 10% to 20% by weight
9. The quick lime or hydrated lime belongs to which Indian Standard classification of lime :
(A) Class A (B) Class B
(C) Class C (D) Class D

10. The lime obtained by calcination of pure lime is called :
- (A) Quick lime (B) Fat lime
(C) Hydraulic lime (D) Hydrated lime
11. The correct order of stages in manufacture of cement :
- (A) Collection, burning, mixing, grinding
(B) Collection, grinding, burning, mixing
(C) Collection, mixing, burning, grinding
(D) Mixing, Collection, burning, grinding
12. The natural defect of a timber when branches have being cut off or broken :
- (A) Shakes (B) Twisted fibers
(C) Upsets (D) Knots
13. The brick cut along the lengthwise into tow portions called :
- (A) Bats (B) Quion
(C) King closer (D) Queen closer
14. The stones extending through the entire thickness of the wall is called :
- (A) Coping (B) Frieze
(C) Through Stones (D) Blocking course
15. The vertical member placed between string and handrail to provide support to hand rail is called :
- (A) Nosing (B) Rise
(C) Going (D) Baluster
16. The roof slopes in two directions from ridge to eaves is called :
- (A) Lean to roof (B) Gabled roof
(C) Hipped roof (D) North light roof
17. The type of foundation suitable for soft clayey soils in marshy areas :
- (A) Isolated footing (B) Pile foundations
(C) Raft foundations (D) All of the above
18. The horizontal projection of head or sill beyond the face of door or window frame is called :
- (A) Rebate (B) Style
(C) Mullion (D) Horn

19. The buildings are where people gather or meet together for amusement, social, religious, political, civil, travel etc as per KMBR is :
- (A) Group A (B) Group D
(C) Group B (D) Group E
20. The floor space index is the ratio of :
- (A) Total built up area and plot area (B) Total plinth area and carpet area
(C) Total carpet area and plot area (D) All of the above
21. The site plan should be drawn to a scale not less than :
- (A) 1:100 (B) 1:200
(C) 1:300 (D) 1:400
22. The proposed building in the plan should be provided with colour code :
- (A) Brown line (B) Black line
(C) Red line (D) Green line
23. The minimum front yard provided for Group A buildings upto 10 m height is :
- (A) 2 metre (B) 5 metre
(C) 1.5 metre (D) 3 metre
24. The building plan should be drawn at a scale of :
- (A) 1:100 (B) 1:200
(C) 1:300 (D) 1:400
25. Soundness of cement is determined by :
- (A) Lee-Chatelier apparatus
(B) Vitcat apparatus
(C) Blaine's air permeability apparatus
(D) None of the above
26. The amount of water content added to cement to determine the initial setting time is :
- (A) 0.85 times water percentage required for consistency
(B) 0.8 times water percentage required for consistency
(C) 0.78 times water percentage required for consistency
(D) 0.95 times water percentage required for consistency
27. The specific gravity of cement is :
- (A) 2.76 (B) 3.50
(C) 1.44 (D) 2.56

28. The amount of water content added to cement to determine the soundness test is :
- (A) 0.85 times water percentage required for consistency
 - (B) 0.8 times water percentage required for consistency
 - (C) 0.78 times water percentage required for consistency
 - (D) 0.95 times water percentage required for consistency
29. The degree of workability of concrete for a compaction factor of 0.78 is :
- (A) Very low workability
 - (B) Low workability
 - (C) Medium workability
 - (D) High workability
30. For ordinary RCC work of slabs and beams the slump required is :
- (A) 20 mm to 30 mm
 - (B) 50 mm to 100 mm
 - (C) 75 mm to 150 mm
 - (D) 25 mm to 50 mm
31. The roads running through the length and breadth of India connecting major ports, foreign highways, capital of large states, and large industrial and tourist centers is :
- (A) National highways
 - (B) State highways
 - (C) Major District Roads
 - (D) Other District Roads
32. The pavement base course made of crushed or broken aggregates mechanically interlocked by rolling and voids filled by screening and binding with the assistance of water
- (A) Water bound macadam
 - (B) Bituminous macadam
 - (C) Gravel roads
 - (D) Earth roads
33. The thickness of each compacted layer of WBM is :
- (A) 150 mm
 - (B) 75 mm
 - (C) 70 mm
 - (D) 65 mm
34. As per IRC the STOP Signal is of :
- (A) Hexagonal shape 900 mm standard size
 - (B) Pentagon shape 700 mm standard size
 - (C) Octagonal shape 900 mm standard size
 - (D) Octagonal shape 700 mm standard size
35. GIVE WAY signs belongs to :
- (A) Danger sign
 - (B) Prohibitory sign
 - (C) Mandatory sign
 - (D) Regulatory sign

36. The transverse support for a railway to give stiffness to it is called :
- (A) Ballast (B) Formation
(C) Sleepers (D) Rails
37. The portion of water after precipitation that reaches the ground enters earth surface enhance the moisture content of soil and reaches the ground water body :
- (A) Infiltration (B) Transpiration
(C) Evaporation (D) Precipitation
38. The duration of direct run off after the end of :
- (A) Effective duration (B) Basin lag
(C) Recession time (D) Time of concentration
39. The hydrograph that is produced by a continuous effective rainfall at a constant rate for indefinite period :
- (A) Hetograph (B) Unit hydrograph
(C) S hydrograph (D) Hydrograph
40. Direct runoff is the ratio of :
- (A) Total volume of direct runoff and area of basin
(B) Area of catchment and total volume of direct runoff
(C) Storm discharge and time
(D) None of the above
41. The type of irrigation suitable for potatoes :
- (A) Check flooding (B) Furrow Irrigation
(C) Contour farming (D) Drip Irrigation
42. The irrigation capacity of a unit of water is called :
- (A) Duty (B) Delta
(C) Crop period (D) None of the above
43. The delta in relationship with duty D and base period B is :
- (A) $8.64 \frac{B}{D}$ (B) $8.65 \frac{B}{D}$
(C) $9.0 \frac{B}{D}$ (D) $9.1 \frac{B}{D}$

44. The first watering to the crop is called :
- (A) Crop period (B) Base period
(C) Kor watering (D) Kor period
45. Sugarcane is a :
- (A) Karif crop (B) Rabi crop
(C) Perennial crop (D) None of the above
46. Drip irrigation is also known as :
- (A) Furrow irrigation (B) Sprinkler irrigation
(C) Basin flooding (D) Trickle irrigation
47. The hydraulic structure in which the irrigation canal is taken over the drainage is known as :
- (A) Aqueduct (B) Syphon Aqueduct
(C) Canal siphon (D) Super passage
48. Masonry or concrete structure, constructed down stream of the head-regulator, across the parent channel for regulating its supply is called :
- (A) Head regulator (B) Cross regulator
(C) Canal escapes (D) Outlet
49. Pointing in walls is calculated in :
- (A) m^2 (B) m^3
(C) m (D) None of the above
50. Cornice is measured in :
- (A) m^2 (B) m^3
(C) m (D) None of the above
51. No deduction is made for painting and plastering of walls for openings areas :
- (A) Upto 0.5 sq.m
(B) Greater than 0.5 sq.m but not exceeding 3 sq.m
(C) Greater than 3 sq.m
(D) None of the above
52. The value of dismantled materials is :
- (A) Scrap value (B) Salvage value
(C) Obsolescence (D) Rateable value

53. The floor area excluding circulation area and sanitary accommodations is called :
- (A) Floor area (B) Plinth area
(C) Carpet area (D) Circulation area
54. The power of Superintending Engineer for a technical sanction to a project is limited to :
- (A) Full power (B) Upto 15 lakhs
(C) Upto 10 lakhs (D) Upto 5 lakhs
55. The sanitary sewers pipe designed for running half full at maximum discharge is :
- (A) Less than 0.4m diameter (B) Greater than 0.4m diameter
(C) Equal to 0.4m diameter (D) None of the above
56. The velocity which will scour the deposited soil particles and not allowing to deposit is called :
- (A) Maximum velocity (B) Minimum velocity
(C) Self cleansing velocity (D) All of the above
57. A normal manhole is about :
- (A) 0.7 m to 0.9 m depth (B) 1.5 m depth
(C) Greater than 1.5 m depth (D) None of the above
58. The detention time for a sewage sedimentation tank is :
- (A) 1 to 2 hours (B) 2 to 3 hours
(C) 3 to 4 hours (D) 4 to 5 hours
59. The correct sequence of sludge digestion occurs as :
- (A) Acid fermentation, Acid regression, Alkaline fermentation
(B) Alkaline fermentation, Acid regression, Acid fermentation
(C) Acid regression, Alkaline fermentation, Acid fermentation
(D) Alkaline fermentation, Acid fermentation, Acid regression
60. The detention period of activated sludge plant is :
- (A) 2 to 4 hours (B) 4 to 8 hours
(C) 3 to 6 hours (D) 1 to 2 hours
61. The transported soil has deposited at a place far away from the origin by wind as an agent is called :
- (A) Residual soil (B) Lacustrine deposits
(C) Alluvial deposits (D) Aeoline deposits

62. The maximum gross pressure which the soil can carry safely without shear failure :
- (A) Net safe bearing capacity (B) Gross safe bearing capacity
(C) Ultimate bearing capacity (D) Allowable bearing capacity
63. If a load bearing pile rest on hard strata and transfer the load through the tips is called :
- (A) End bearing pile (B) Friction pile
(C) Anchor piles (D) All of the above
64. The footing provided when the space between two columns is so small that the foundation for individual columns will overlap :
- (A) Raft foundation (B) Isolated footing
(C) Pile foundation (D) Combined footing
65. The foundation which is generally provided below the water level for bridges :
- (A) Raft foundation (B) Isolated footing
(C) Pile foundation (D) Well foundation
66. The piles are formed by driving a casing of closed bottom end into soil and later filled with concrete is called :
- (A) Driven piles (B) Driven and cast — insitu piles
(C) Bored and cast insitu piles (D) Screw piles
67. The command that creates concentric circles, parallel lines, and parallel curves in AUTOCAD is :
- (A) Trim (B) Offset
(C) Copy (D) Fillet
68. The command that bevels the edges of objects in AUTOCAD is :
- (A) Chamfer (B) Offset
(C) Copy (D) Fillet
69. The command that enlarges or reduces selected objects proportionally in the X, Y, and Z directions in AUTOCAD is :
- (A) Chamfer (B) Offset
(C) Scale (D) Fillet
70. The command that breaks a compound object into its component objects :
- (A) Chamfer (B) Explode
(C) Scale (D) Fillet

71. Change the voice

Close the door.

- (A) Let the door is closed (B) Let the door be closed
(C) Let the door remain closed (D) The door will be closed

72. Use the correct phrasal verb for the underlined :

John quarrelled with his father and went out in haste.

- (A) fell in (B) looked after
(C) fell out (D) looked out

73. Find out the correct sentence :

- (A) Swetha is usually wearing saree. But today she is wearing churidhar
(B) Swetha has usually been wearing saree. But today she wears churidhar
(C) Swetha usually wears saree. But today she is wearing churidhar
(D) Swetha usually wearing saree. But today she wearing churidhar

74. Find out the synonym of the word underlined :

The teacher remained disinterested.

- (A) angry (B) impartial
(C) biased (D) eager

75. Antonym of the word **nefarious** is :

- (A) virtuous (B) clever
(C) strong (D) immune

76. Sheela has been very good _____ Mathematics.
(A) in (B) with
(C) on (D) at

77. Find out the wrongly spelt word :

- (A) Bourgeoisie
- (B) Entrepreneurship
- (C) Accomodation
- (D) Occasion

78. If he _____ calm, he could have succeeded the test.

- (A) remained
- (B) had remained
- (C) has remained
- (D) had been remained

79. She likes coffee, _____?

- (A) isn't she? (B) doesn't she?
- (C) do she? (D) isn't it?

80. Replace the underlined phrase with a one word :

Meena used to talk a lot about anything she found interesting.

- (A) Taciturn
- (B) Austere
- (C) Sanctimonious
- (D) Loquacious

81. The ratio of the cost price and selling price is 4:5. The profit % is :
 (A) 25% (B) 75%
 (C) 50% (D) 20%
82. The area of a square field is 676. Its length is :
 (A) 26 (B) 23
 (C) 16 (D) 18
83. How many bricks of 15 cm × 10 cm will be required to pave the floor of a hall which is 20 m long and 15 m wide?
 (A) 20000 (B) 10000
 (C) 50000 (D) 25000
84. The area of an equilateral triangle of side $2\sqrt{2}$ cm :
 (A) $2\sqrt{5}$ (B) $2\sqrt{3}$
 (C) $3\sqrt{3}$ (D) $3\sqrt{2}$
85. If simple is related to PLESIM, How is JUNGLE is coded?
 (A) GLEJNU (B) GLJENU
 (C) GLENJU (D) GLEJUN
86. What could be the simple interest obtained on an amount of Rs.8,000 at the rate of 8 p.c. per annum after 4 years?
 (A) 2000 (B) 2650
 (C) 2560 (D) 3000
87. Today is Monday, what will be the day after 57 days?
 (A) Tuesday (B) Wednesday
 (C) Sunday (D) Friday
88. Raju ranks 5th from the top and 21st from the bottom in a class, How many students are there in a class?
 (A) 24 (B) 25
 (C) 26 (D) 30
89. A mother is currently 4 times older than her son. In 10 years, she will be 2 times older than her son. What are their current ages?
 (A) 10, 40 (B) 15, 60
 (C) 5, 20 (D) 6, 24
90. If $A:B=3:4$ $B:C=5:6$ what is $A:C$?
 (A) 5 : 4 (B) 4 : 5
 (C) 5 : 8 (D) 8 : 5

91. Which temple in Kerala is known for its ancient walls and is dedicated to Lord Shiva?
 (A) Thrissur Vadakkunnathan (B) Malayattur
 (C) Ernakulathappan (D) Chengannur Mahadeva
92. Which temple festival in Kerala is known for its grand procession of decorated elephants?
 (A) Thrissur Pooram (B) Guruvayur Festival
 (C) Sabarimala Festival (D) Padmanabhaswamy Festival
93. Which of the following is a characteristic feature of temple architecture in Kerala?
 (A) Towering gopurams (B) Large mandapas
 (C) Copper-clad roofs (D) Intricate carvings
94. What is the name of the ornamental roof decoration in Kerala temple architecture?
 (A) Kalasam (B) Gopuram
 (C) Vimanam (D) Mandapa
95. Which temple in Kerala is known for its unique architecture and is dedicated to Lord Vishnu?
 (A) Padmanabhaswamy Temple (B) Guruvayur Temple
 (C) Thrissur Vadakkunnathan Temple (D) Sabarimala Temple
96. What is the name of the sacred enclosure surrounding the garbhagriha (sanctum sanctorum) in Kerala temples?
 (A) Chuttambalam (B) Namaskara Mandapa
 (C) Garbhagriha (D) Ardha Mandapa
97. Which of the following is responsible for the administration of Hindu temples in Kerala?
 (A) Kerala Government
 (B) Travancore Devaswom Board (TDB)
 (C) Cochin Devaswom Board (CDB)
 (D) Malabar Devaswom Board (MDB)
98. Who appoints the Commissioner of the Travancore Devaswom Board?
 (A) Governor of Kerala (B) Chief Minister of Kerala
 (C) Minister for Devaswom (D) Judge of the Kerala High Court
99. Which of the following temples in Kerala is NOT administered by the Travancore Devaswom Board?
 (A) Padmanabhaswamy Temple (B) Guruvayur Temple
 (C) Sabarimala Temple (D) Vadakkunnathan Temple
100. What is the name of the board responsible for recruiting staff for Hindu temples in Kerala?
 (A) Kerala Devaswom Recruitment Board (KDRB)
 (B) Travancore Devasworn Board (TDB)
 (C) Cochin Devaswom Board (CDB)
 (D) Malabar Devaswom Board (MDB)