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Booklet Serial No. 104417

Test Booklet Series

DRAFTSMAN (SOIL CONSERVATION)  
OMR Examination - 2025


Time Allowed: 120 Minutes

Maximum Marks: 120

## INSTRUCTIONS

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4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the appropriate. In any case, choose **ONLY ONE** response for each item.
  5. You have to mark all your responses **ONLY** on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
  6. All items carry equal marks.
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  8. Sheets for rough work are appended in the Test Booklet at the end.
  9. While writing Centre Code and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use **"ONLY BLUE/BLACK BALL POINT PEN"**.
  10. Penalty for wrong answers:  
**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).**
    - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, ( $\frac{1}{4}$ ) of the marks assigned to that question will be deducted as penalty.
    - (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
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(Set - A)



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1.  The minimum spacing between lines in lettering to maintain clarity is:
  - A) Equal to the line thickness
  - B) Half the line thickness
  - C) Twice the line thickness
  - D) 1.5 times the height of lettering
2. Which tool is used for concrete slump testing?
  - A) Plumb bob
  - B) Slump cone
  - C) Trowel
  - D) Level tube
3. What is the primary purpose of watershed management?
  - A) Building roads
  - B) Cement production
  - C) Urban planning
  - D) Water and soil conservation
4. Terracing helps in:
  - A) Increasing slope
  - B) Preventing erosion
  - C) Growing trees
  - D) Harvesting crops
5. What does "plinth area" refer to?
  - A) Area of doors
  - B) Carpet area
  - C) Covered area at floor level
  - D) Height of building
6. Which is a micro-irrigation technique?
  - A) Drip irrigation
  - B) Canal irrigation
  - C) Flood irrigation
  - D) Lift irrigation

7. Which method is used in plane table surveying to fix a point by two known points?
  - A) Radiation
  - B) Resection
  - C) Intersection
  - D) Traversing
  
8. A block in AutoCAD is:
  - A) A layer
  - B) A toolbar
  - C) An area of screen
  - D) A group of objects saved as a single item
  
9. The true shape of a section is seen when the cutting plane is:
  - A) Parallel to the viewing plane
  - B) Inclined to the plane of projection
  - C) Perpendicular to the viewing direction
  - D) At an arbitrary angle
  
10. Which stone is best suitable for building works?
  - A) Sandstone
  - B) Laterite
  - C) Granite
  - D) Marble
  
11. Welded joints are preferred over riveted joints because:
  - A) They are temporary
  - B) They are less aesthetic
  - C) They form a stronger bond
  - D) They require more labour
  
12. In permanent gully control, which structure is used at the head?
  - A) Drop structure
  - B) Toe wall
  - C) Gabion
  - D) Retaining wall



13. Drafting software often used in conservation planning is:
- A) Excel
  - B) AutoCAD
  - C) Photoshop
  - D) Word
14. The unit of measurement for painting work is:
- A) Running meter
  - B) Cubic meter
  - C) Kilogram
  - D) Square meter
15. Percolation tanks are used for:
- A) Power generation
  - B) Flood control
  - C) Groundwater recharge
  - D) Navigation
16. The alidade is used in:
- A) Theodolite surveying
  - B) Plane table surveying
  - C) Chain surveying
  - D) Compass surveying
17. Which factor most affects accuracy of GPS measurement?
- A) Colour of the surface
  - B) Cloud cover
  - C) Number of visible satellites
  - D) Slope angle
18. A polyline is:
- A) Series of connected lines and arcs
  - B) Single circle
  - C) Hatch pattern
  - D) Text

19. A TIN surface in Civil 3D stands for:
  - A) Temporary Indexed Network
  - B) Triangulated Irregular Network
  - C) Terrain Indexed Notation
  - D) Tangent Integrated Node
  
20. Inverted siphon in sewerage is used where:
  - A) Pressure is high
  - B) Open channel flow is maintained
  - C) Stormwater is collected
  - D) Sewer crosses a valley or obstruction
  
21. Which of the following is used to construct an ellipse?
  - A) Two-point method
  - B) Parabola method
  - C) Rectangle method
  - D) Concentric circles method
  
22. Which is not part of RCC elements?
  - A) Lintel
  - B) Column
  - C) Beam
  - D) Scaffolding
  
23. Which type of drawing shows terrain elevation?
  - A) Plan view
  - B) Contour map
  - C) Floor plan
  - D) Sectional view
  
24. The volume of earthwork in contour bunding is estimated from:
  - A) Area formula
  - B) Trapezoidal formula
  - C) Cross-sectional drawings
  - D) Elevation points



25. For slope  $>30\%$ , the preferred conservation practice is:
- Gabions
  - Trench
  - Bench terracing
  - Retaining walls
26. When an additional item of work is required beyond original scope, the estimate type is:
- Revised
  - Plinth area
  - Technical sanction
  - Supplementary
27. What is the purpose of a stilling basin in hydraulic structures?
- Increase pressure
  - Reduce silt
  - Dissipate energy
  - Store water
28. "Consumptive use" of water includes:
- Runoff + infiltration
  - Evaporation + transpiration
  - Water used in turbines
  - Flow through weirs
29. A bearing is measured in:
- Degrees
  - Meters
  - Radians
  - Hours
30. What is the sag correction in chaining?
- Always positive
  - Always negative
  - May be zero
  - Ignored for accuracy

31. In Civil 3D, which feature helps create terrain surfaces?
- Assembly
  - Parcel
  - Profile
  - Surface
32. Which file type is used to save drawing templates in AutoCAD?
- .DWG
  - .DWT
  - .DXF
  - .DWF
33. The function of a grit chamber in STP is to:
- Settle heavy inorganic solids
  - Remove suspended organic matter
  - Kill bacteria
  - Filter fine particles
34. In modern STPs, tertiary treatment aims to:
- Remove large solids
  - Improve appearance
  - Disinfect and polish effluent
  - Remove floating oil
35. In isometric projection, the angle between the projection axes is:
- $45^\circ$
  - $30^\circ$
  - $60^\circ$
  - $90^\circ$
36. Which material is used in damp-proofing?
- Bitumen
  - Gypsum
  - Clay
  - Cement mortar

37. What is a gabion structure made from?
- A) Bricks
  - B) Soil
  - C) Bamboo
  - D) Metal mesh and stones
38. A watershed is an area:
- A) Around a river only
  - B) With natural vegetation
  - C) That drains into a common outlet
  - D) Used for mining
39. Sheet erosion removes soil:
- A) Uniformly across the surface
  - B) In small gullies
  - C) In patches
  - D) In deep cuts
40. A building setback is:
- A) A failure
  - B) Wall thickness
  - C) Internal room
  - D) Minimum distance from plot boundary
41. The Annual Rental Value method is mostly used for:
- A) Industrial property
  - B) Residential colonies
  - C) Municipal tax assessment
  - D) Land only
42. A barrage is mainly constructed to:
- A) Generate electricity
  - B) Control floods
  - C) Store water
  - D) Divert water

43. What is dead storage in a reservoir?
- A) Storage for drinking water
  - B) Water below the outlet level
  - C) Water above dam crest
  - D) Silt storage
44. GPS stands for:
- A) General Positioning Survey
  - B) Global Pointing System
  - C) Geographical Point Service
  - D) Global Positioning System
45. The instrument station in total station is known as:
- A) Occupied station
  - B) Back station
  - C) Bench mark
  - D) Fore station
46. A lemniscate curve is used in:
- A) Canal alignment
  - B) High-speed railway curves
  - C) Road interchanges
  - D) Tunnel construction
47. Model Space in AutoCAD is used to:
- A) Print drawing
  - B) Manage layouts
  - C) Draw actual designs
  - D) Add title block
48. Which of the following is not a type of coordinate system in GIS?
- A) UTM
  - B) Geographic
  - C) Cartesian
  - D) Orthogonal



49. The term "sewer" refers to:
- A) Clean water pipe
  - B) Electrical conduit
  - C) Wastewater pipe
  - D) Gas pipe
50. In a two-pipe house drainage system, the waste pipe discharges:
- A) Into gully trap directly
  - B) Into soil pipe
  - C) Into rainwater drain
  - D) Into inspection chamber
51. Which symbol is used to represent earthwork in agricultural engineering drawings?
- A) A circle with a diagonal
  - B) A cross-hatched square
  - C) Triangular mark
  - D) Wavy horizontal lines
52. Which of the following is used to draw smooth curves through a series of points?
- A) Compass
  - B) T-square
  - C) French curve
  - D) Set square
53. Which test is conducted to determine concrete workability?
- A) Cube test
  - B) Slump test
  - C) Impact test
  - D) Soundness test
54. The minimum grade of concrete for RCC work as per IS:456-2000 is:
- A) M10
  - B) M15
  - C) M20
  - D) M25

55. In cross-sectional drawing, the vertical scale is sometimes exaggerated for:

- A) Clarity
- B) Aesthetics
- C) Uniformity
- D) Budget

56. Effective slope of a terrace is determined by:

- A) Soil pH
- B) Rainfall
- C) Length of slope and vertical interval
- D) Water table

57. What does the duty of water mean?

- A) Height of water fall
- B) Pressure of water
- C) Speed of water
- D) Area irrigated per unit discharge

58. In hydrology, what is the rational method used for?

- A) Calculating peak discharge
- B) Estimating soil erosion
- C) Measuring canal flow
- D) Sizing irrigation pipes

59. The HI method is used in:

- A) Plane tabling
- B) Levelling
- C) Curves setting
- D) Compass traversing

60. The most accurate method of plane table surveying is:

- A) Radiation
- B) Traversing
- C) Resection
- D) Intersection

61. In 3D modelling, the Revolve command is used to:
- Rotate the viewport
  - Sweep a shape around an axis
  - Move objects
  - Copy an object
62. The most common type of joint used in stoneware pipes is:
- Spigot and socket joint
  - Flanged joint
  - Butt joint
  - Expansion joint
63. The minimum diameter of a self-cleansing sewer should be:
- 100 mm
  - 150 mm
  - 250 mm
  - 300 mm
64. In orthographic projection, the top view is projected onto the:
- Vertical plane
  - Isometric plane
  - Profile plane
  - Horizontal plane
65. What is used in termite-proofing?
- Kerosene
  - Chlorpyrifos
  - Turpentine
  - Wax
66. Composite masonry includes:
- Lime and sand
  - Bricks and cement
  - Stone and bricks together
  - Timber and metal

67. Contour lines connect points of equal:
- A) Slope
  - B) Distance
  - C) Rainfall
  - D) Elevation
68. A cross-section of a terrace is drafted to show:
- A) Slope, width, and riser
  - B) Rainfall
  - C) Soil texture
  - D) Concrete details
69. In drafting, a layout drawing shows:
- A) Construction details
  - B) Longitudinal slope
  - C) General arrangement
  - D) Foundation depth
70. Gully depth measurements are used to calculate:
- A) Rainfall
  - B) Slope curvature
  - C) Fertility
  - D) Sediment loss
71. Rate analysis involves:
- A) Breakdown of labour, material, and overhead costs
  - B) Time schedule
  - C) Quantity only
  - D) Design aesthetics
72. What is a "sluice gate" used for?
- A) Silt deposition
  - B) Water discharge control
  - C) Water aeration
  - D) Measuring temperature

73. A canal drop is constructed to:
- Store water
  - Reduce erosion
  - Control seepage
  - Lower canal bed level
74. The angle between the magnetic meridian and the line surveyed is called:
- Bearing
  - Declination
  - Azimuth
  - Dip
75. The command LTSCALE affects:
- Circle radius
  - Text alignment
  - Line type scale
  - Layer transparency
76. The command to export AutoCAD drawing to GIS-compatible format is:
- EXPORTGIS
  - MAPEXPORT
  - DWFEXPORT
  - GISEXPORT
77. In sewage treatment, BOD stands for:
- Biological Oxygen Demand
  - Biochemical Organic Demand
  - Basic Organic Discharge
  - Bacterial Oxidation Demand
78. Gabions must be anchored to prevent:
- Overheating
  - Manual theft
  - Growth of weeds
  - Collapse during high flow



79. Which drafting scale is best for gully layout?
- 1:50
  - 1:500
  - 1:5000
  - 1:20000
80. The term "gully plugging" refers to:
- Reducing width
  - Preventing flow
  - Blocking gully head
  - Growing trees
81. Efflorescence in bricks is caused due to presence of:
- Iron oxide
  - Calcium carbonate
  - Silica
  - Alkaline salts
82. The axis of a cone is inclined to the horizontal plane and parallel to the vertical plane. The conic section will appear as an ellipse when viewed in the:
- Top view
  - Front view
  - Side view
  - Auxiliary view
83. Steel used in RCC is mainly for:
- Reducing weight
  - Thermal insulation
  - Withstanding tensile stress
  - Surface finish
84. Cross-sectional drawing of terrace includes:
- Only length
  - Labels only
  - Colour coding
  - Width and depth

85. Terraces are constructed:
- A) Parallel to the slope
  - B) Perpendicular to the slope
  - C) Across the slope
  - D) Randomly
86. Underpinning is used for:
- A) Excavation support
  - B) Foundation strengthening
  - C) Concrete curing
  - D) Damp prevention
87. Which instrument is used to measure contour gradients?
- A) Clinometer
  - B) Vernier scale
  - C) Planimeter
  - D) Dumpy level
88. Check dams are spaced based on:
- A) Gully gradient
  - B) Width of gully
  - C) Rainfall
  - D) Crop season
89. In valuation, depreciation refers to:
- A) Increase in value
  - B) Cost of repair
  - C) Decrease in value due to age/use
  - D) Insurance premium
90. A gravity dam resists forces by:
- A) Its own weight
  - B) Tension
  - C) Flexibility
  - D) Expansion joints

91. Aqueducts in canal systems are used to:
- A) Cross roads
  - B) Cross drainage channels over canals
  - C) Carry canal over natural drains
  - D) Regulate water levels
92. An angle greater than  $180^\circ$  and less than  $360^\circ$  is called:
- A) Whole circle bearing
  - B) Horizontal angle
  - C) Internal angle
  - D) Reflex angle
93. Extrude is used in 3D modelling to:
- A) Stretch a 2D object into 3D
  - B) Flatten a surface
  - C) Rotate a shape
  - D) Create layers
94. The first chamber in a septic tank is used for:
- A) Disinfection
  - B) Sludge digestion
  - C) Filtration
  - D) Sedimentation
95. In Civil 3D, profiles represent:
- A) Points
  - B) Vertical section of alignment
  - C) Layout viewports
  - D) Cross-sections
96. The length of a Gunter's chain is:
- A) 66 ft
  - B) 30 m
  - C) 20 m
  - D) 33 m



97. In AutoCAD, ViewCube is used to:
- A) Create objects
  - B) Switch between model/layout
  - C) Navigate 3D views
  - D) Plot drawings
98. Agronomic measures prevent erosion by:
- A) Slowing wind speed
  - B) Increasing infiltration
  - C) Improving aesthetics
  - D) Raising temperature
99. For steep terrain, the most effective erosion control is:
- A) Check dams
  - B) Strip cropping
  - C) Vegetation alone
  - D) Bench terracing
100. The unit of measurement for brickwork is:
- A) Cubic meter
  - B) Square meter
  - C) Running meter
  - D) Kilogram
101. Hydrographs represent:
- A) Crop water use
  - B) Rainfall vs. temperature
  - C) Stream flow over time
  - D) Soil profile
102. A total station can measure distances using:
- A) Magnetic field
  - B) Refraction index
  - C) Tape
  - D) EDM

103. The baffle wall in a septic tank:

- A) Controls gas flow
- B) Prevents scum from flowing
- C) Aids chlorination
- D) Divides inlet and outlet

104. A properly designed terrace avoids:

- A) Waterlogging and overtopping
- B) Flooding
- C) Cracks
- D) Sediment

105. Which of the following is included in a detailed estimate?

- A) Only abstract cost
- B) Lump sum provision
- C) Item-wise quantity and rate calculations
- D) Only labour cost

106. Watershed boundaries are marked based on:

- A) Road networks
- B) Soil colour
- C) Vegetation
- D) Topographic divides

107. Scrap value in valuation refers to:

- A) Final value after demolition
- B) Taxable value
- C) Market resale value
- D) Repair cost

108. What is the function of energy dissipators in spillways?

- A) Increase velocity
- B) Measure flow
- C) Prevent downstream erosion
- D) Increase head

109. Strip cropping is aligned:

- A) Along the slope
- B) Across the slope
- C) In circles
- D) Zig-zag

110. In CAD software, layers are used to:

- A) Create blocks
- B) Rotate lines
- C) Make 3D objects
- D) Organize drawings

111. Which instrument is used to measure rainfall?

- A) Anemometer
- B) Hygrometer
- C) Rain gauge
- D) Barometer

112. Which is a temporary gully control structure?

- A) Brushwood dam
- B) Stone pitching
- C) RCC wall
- D) Gabion wall





113. Which of the following acts as an admixture in concrete?

- A) Bitumen
- B) Fly ash
- C) Sand
- D) Timber

114. In theodolite, the line of collimation error affects:

- A) Length measurement
- B) Area calculation
- C) Vertical angles
- D) Horizontal angles

115. What type of erosion forms deep channels?

- A) Wind erosion
- B) Sheet erosion
- C) Gully erosion
- D) Splash erosion

116. Which part of a door holds it to the wall?

- A) Frame
- B) Panel
- C) Shutter
- D) Architrave

117. Which line type is used to represent visible edges in a drawing?

- A) Centre line
- B) Continuous thick line
- C) Hidden line
- D) Chain line

118. The load-carrying member in steel roof trusses is:

- A) Gutter
- B) Gusset plate
- C) Ridge
- D) Rafter

119. In conic sections, a parabola is formed when a plane intersects the cone:

- A) Perpendicularly to its base
- B) Parallel to the base
- C) At an angle equal to the generator
- D) Through the apex

120. In GIS, attribute data is:

- A) Spatial location
- B) Image pixels
- C) Descriptive information about spatial features
- D) Coordinates



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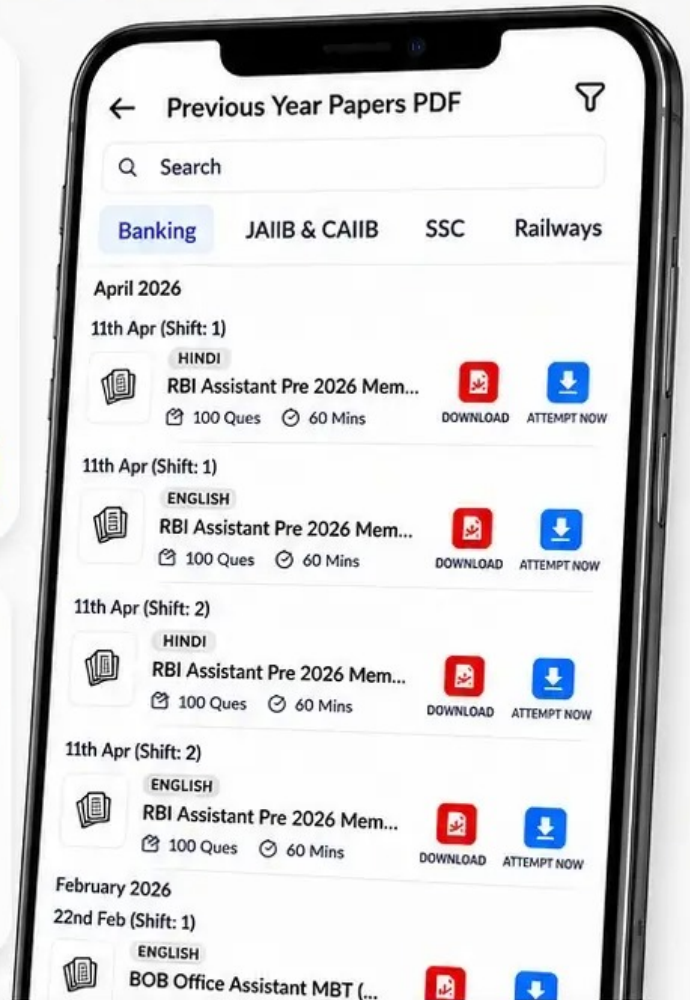
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