



EXAM HELD ON
03/04/2022

DRAFTSMAN GRADE II DRAFTSMAN CIVIL TRADESMAN CIVIL



LIVE

QUESTION PAPER
DISCUSSION

#LearnfromtheBest



OVERSEER GRADE III / GRADE II LSGD | KSLUB



| SI No. | Subject | Marks |
|--------|---------------------------|-------|
| 1 | Basic Engineering Drawing | 6 |
| 2 | Building Materials | 9 |
| 3 | Building Construction | 12 |
| 4 | Building Estimation | 13 |
| 5 | Irrigation Engineering | 7 |
| 6 | Surveying | 15 |
| 7 | AutoCAD | 7 |
| 8 | Workshop Calculation | 2 |
| 9 | Applied Mechanics | 7 |

| SI No. | Subject | Marks |
|--------|--|-------|
| 10 | Transportation Engineering | 4 |
| 11 | Public Health and Sanitary Engineering | 6 |
| 12 | RCC | 6 |
| 13 | Geotechnical Engineering | 1 |
| 14 | Steel Structures | 1 |
| 15 | Railway Engineering | 2 |
| 16 | Others | 2 |



1. Thickness of centre line and locus line is

- A. 10 cm
- B. 20 mm**
- C. 10 mm
- D. 25 mm



2. Angle is formed between two.

- A. Angular lines
- B. Straight lines**
- C. Parallel lines
- D. All of these



3. Scale represent three different units such as metre, decimetre and centimeter

- A. Vernier scale
- B. Plane scale
- C. **Diagonal scale**
- D. None of these



4 All ellipse has_____ vertics and foci

A. Two, two

B. One, two

C. One, one

D. Two, one



5. Which grade of pencil is used for drawing arrow heads?

A. 2B

B. 2H

C. SH

D. H



6. Following is an enlarge scales

A. 1:2

B. 1:1

C. 2:1

D. 3 :1



7. The front view of a line perpendicular to

- A. Point**
- B. A line of total length**
- C. A line of true length**
- D. None of these**



8. 10 centimetre is _____ decimeter

A. 10 mm

B. 1 cm

C. 1 decimeter

D. None of the above



9. The unit measurement is in trusses for steel works and its parts i

- A. Kilogram
- B. Quintel**
- C. Numbers
- D. Centimetre



10. One cubic metre of mild steel weight

- A. 1000 kg
- B. 7865 kg
- C. 7850 kg**
- D. 6248 kg



11. The rate of payment is made for 100 cum (per of cum) in case of

- A. Rock cutting
- B) Earth work in excavation
- C) Excavation in trenches in foundation
- D) All of these**



12. Which area is included in floor area?

- A. Varandhas**
- B. Supported porches**
- C. Balconies**
- D. Walls**



13. Damp proof course (DPC) is measured in

- A. sqm
- B. cum
- C. metre
- D. none of these



14. What is scrap value at the end of utility period of building ?

- A. 5%
- B. 10%**
- C. 6%
- D. 3%



15. How much cum metre of cement is equal to one bag of cement?

- A. 0034 cum
- B. 0.0034 cum
- C. 0.034 cum
- D. 0.34 cum



16. What is the name of the useful area or liveable area in building ?

- A. Plinth area**
- B. Floor area**
- C. Circulation area**
- D. Carpet area**



17. Which estimate is called item rate estimate?

- A. Plinth area estimate
- B. Detailed estimate**
- C. Abstract estimate.
- D. Preliminary estimate



18. What is the unit of measurement in MKS for brick work of thin partition wall?

- A. sq inch
- B. sq cm
- C. sq ft
- D. **sq m**



19. What is the unit measurement in the excavation of foundation ?

- A. cum**
- B. sq m**
- C. metre**
- D. cum cm**



20. The total estimate cost of a building sanitary and water supply work usually account for

- A. 3%**
- B. 18%**
- C. 8%**
- D. 10%**

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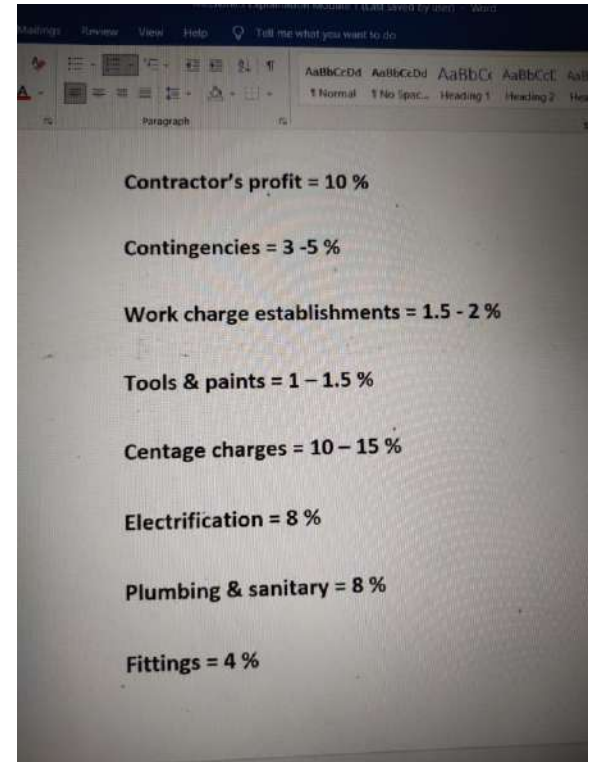
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21. The increase in volume of dry sand when water is added is called

- A. Honey combing
- B. Bulking**
- C. Segregation
- D. Bleeding





22.The aggregate is called coarse aggregate if it is completely retained on

- A. 475 mm sieve
- B. 15 mm seive
- C. 219 mm sieve
- D. 4.75 mm seive**



23. The compressive strength of stone is found out by

- A. Attrition test
- B. Crushing test**
- C. Hardness test
- D. Impact test



24. The quantity of one bag of cement is

- A. **0.035m³**
- B. 0.35m m³
- C. 0.0035m³
- D. 3.05m³



25.The Kiln used for the manufacture of terra-cotta is

- A. Rotary Kiln**
- B. Blast Furnace**
- C. Muffle Furnace**
- D. Intermittent Kiln**



26.The compressive strength of fire-bricks varies from

- A. 200 to 220 N/mm²**
- B. 30 to 35 N/mm²**
- C. 20.00 to 22.00 N/mm²**
- D. 2000 to 2200 N/mm²**



27. The heating of limestone to redness in contact with air is known as

- A. Hydraulicity
- B. Calcination**
- C. Setting
- D. Slaking



28. An example for shrinkage-reducing admixture is

- A. Propylene glycol**
- B. Lignosulfonates**
- C. Tartaric acid**
- D. Asphalt**



29. The part of tree, which hold together the annual rings of Hard wood and Sap wood is

- A. **Medullary rays**
- B. Inner bark
- C. Annual rings
- D. Cambium layer



30. The carbon content of steel is

- A. 1.0 to 2.5 Percent
- B. 0.10 to .25 Percent**
- C. 10 to 25 Percent
- D. 0.01 to 0.025 Percent



31. The most common material used as vehicle of a paint is

- A. Nut oil**
- B. Poppy oil**
- C. Tung oil**
- D. Linseed oil**



32.The ability of materials to get stretched into a wire by pulling or drawing is

- A. Ductility**
- B. Malleability**
- C. Brittleness**
- D. Fatigue**



33. Horizontal Projections of head or sill beyond the face of door and window frame is

- A. Head
- B. Horn**
- C. Style
- D. Rail



34. The window which is provided in a room which has greater ceiling height than the

- A. **Clere-storey window**
- B. Bay window
- C. Dormer window
- D. Lantern window



35. A short sections of wood or steel which are fixed on the principal rafters of trusses to support the purlin is

- A. Template**
- B. Post plate**
- C. Cleats**
- D. Wall plate**



36. The process of joining two wooden members at an angle is called

- A. Scribing**
- B. Housing**
- C. Rebatting**
- D. Mitring**



37. In a residential building, the average value of stair width is

- A. 700 mm
- B. 900 mm**
- C. 1000 mm**
- D. 800 mm



38. In ordinary residential building the DPC may be provided

- A) Between ground level and water table level
- B) At ground level
- C) At plinth level**
- D) At sill level



39. Which chemical is used as a soil treatment in termite proofing ?

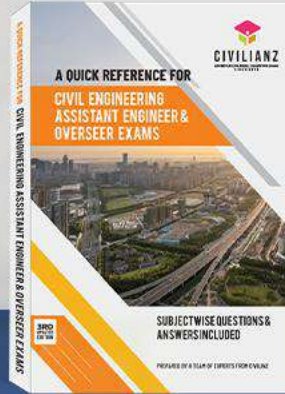
- A. Aldrin**
- B. Chlorine**
- C. Bromine**
- D. Potassium hydroxide**



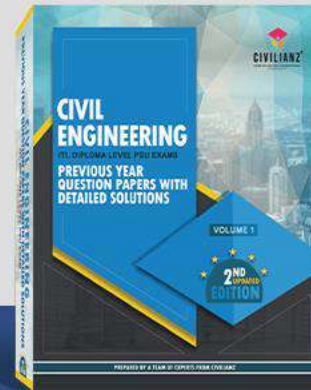
40.Type of bond in brick masonry consisting of alternate course of headers and stretchers is called

- A. Flemish bond**
- B. Heading bond**
- C. Stretching bond**
- D. English bond**

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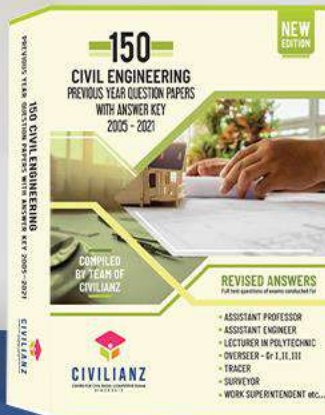
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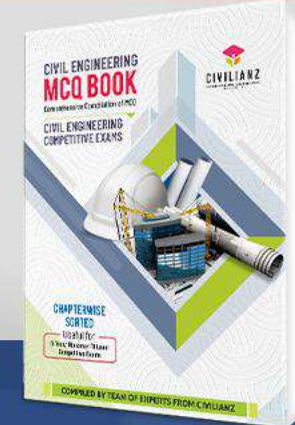
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150 CIVIL ENGINEERING PREVIOUS YEAR QUESTION PAPERS WITH ANSWER KEY



CIVIL ENGINEERING HANDWRITTEN NOTES



A COMPREHENSIVE BOOK OF CIVIL ENGINEERING MCQ BOOK



41. The portion of the brick left after removing the corner equal to half the width and half the length

- A. Closer
- B. King closer**
- C. Queen closer
- D. Mitred closer



42.The portion of the wall which support an arch is wall which

- A. Abutment**
- B. Column**
- C. Pier**
- D. Skew back**



43. An arrangement for supporting an unsafe structure temporary, till it is rendered safe or dismantled

- A. Scaffolding
- B. Shoring**
- C. Jacking
- D. Underpinning



44. When two footings are connected by a beam, the foundation is called

- A. Combined footing**
- B. Mat footing**
- C. Strap footing**
- D. Strip footing**



45. The corresponding proportion of M 7.5 concrete is

- A. 1:11:3
- B. 1:2:4
- C. 1:4:8**
- D. 1:5:10



46.Slump height of concrete for canal lining is

- A. 20 to 40**
- B. 70 to 80**
- C. 25 to 50**
- D. No slump**



47. Pile which are driven to an inclination to resist large horizontal or inclined forces is

- A. Fender pilos**
- B. Anchor piles**
- C. Batter piles**
- D. Tension piles**



48. An example for four centered arch is

- A. Florentine arch**
- B. Venation arch**
- C. Ogee arch**
- D. Horse shoe arch**



49. The maximum strength out of the shearing and bearing strength of the rivet for a particular joint is

- A. Rive - value
- B. Shear strength
- C. Tearing strength
- D. Efficiency of joint



50.As per IS 456, Modular ratio for M30 grade concrete is

- A. 10
- B. 9.33**
- C. 3.66
- D. 6.75



51. The sign convention for bonding moments is that a beam in "hogging" condition is

- A. Positive
- B. Negative**
- C. Positive or Negative
- D. None of these



52. Nominal cover provided for concrete exposed to moderate exposure should not be less than

- A. 75 mm**
- B. 40 mm**
- C. 45 mm**
- D. 30 mm**



53. _____ is to make clear that which is not perfectly evident from numerals and sketches.

- A. Data book**
- B. Explanatory notes**
- C. Map**
- D. Symbols**



54.The difference between two measured value of the same quantity

- A. True error**
- B. Accuracy**
- C. Discrepancy**
- D. None of these**



55. Which of the following instrument is used radio wave for distance measurement ?

- A. Geodimeter
- B. Telluro meter**
- C. Radiography
- D. None of these



56.IS CODE for metric surveying chain

- A) IS 1464-1970
- B) IS 1492-1970**
- C) IS 1491-1970
- D) IS 1462-1970



**57.If the chain is stretched out of the line
the measured distance will always be**

- A. Less**
- B. More**
- C. Equal**
- D. None of these**



58.The true bearing of a line is a _____ quantity.

- A. Varying
- B. Constant**
- C. Non predictable
- D. None of these



59. The whole circle bearing of a line is 170 degree 12 minute what will be the reduced bearing

- A. 9 degree 48 minute**
- B. 10 degree 14 minutes**
- C. 9 degree 30 minutes**
- D. 9 Degree 88 minutes**



60. When the distance between the two points and the instrumentation is either too large or cannot be measured which method is used in plane table ?

- A. Radiation
- B. Intersection
- C. **Resection**
- D. Traversing



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61. ___ is a line passing through out on the surface of the ground and preserving a constant inclination to the horizontal.

- A. Datum
- B. Slope
- C. Contour gradient**
- D. All of these



62.The prismoidal correction is always

- A. Additive**
- B. Zero**
- C. Subtractive**
- D. None of these**



63. ___ the method is based on the principle that the angle between the tangent and the chord is equal to the angle which that chord subtends in the opposite segment.

- A. Offsets from the tangent
- B. Rankines method
- C. **Two theodolite method**
- D. None of these



64. ___ of a survey line may be defined as its co-ordinate length measured parallel to an assumed Meridian direction.

- A. **Latitude**
- B. **Departure**
- C. **Altitude**
- D. **None of these**



65._____allows the user to capture collect and transform spatial and the thematic data into digital form.

- A. Data storage system
- B. Data manipulation
- C. Data input system**
- D. None of these



66. Which program is used for erecting perpendicular line to base line?

- A. Stakeout**
- B. PlayStation**
- C. Reference line**
- D. The distance**



67. What is the distance of the load from the fulcrum called?

- A. Load distance**
- B. Moment**
- C. Load arm**
- D. None of these**



68.The work done in unit time is called

- A. Newton**
- B. Power**
- C. Dyne**
- D. Force**



69. One metric HP is _____ watts.

A. 735.5

B. 700.0

C. 753.5

D. 753.3



70.The capacity of a body to do work is known as

- A. Work**
- B. Power**
- C. Energy**
- D. Force**



71. How many litres of water in a cylindrical tank of radius 75 cm and height 100 cm can

- A. 1765.25 lit
- B. 1763.5 to litres
- C. **1766.25 lit**
- D. 1760.25 l



72. Deformation per unit length in the direction of force is known as

- A. Strain**
- B. Lateral strain**
- C. Linear strain**
- D. Linear stress**



73.The axis used to show depth in AutoCAD

- A. W axis
- B. X axis
- C. Y axis
- D. Z axis**



74. Which command convert discrete object in polyline ?

- A. Union
- B. Subtract
- C. Join**
- D. Polyline



75. _____ sets the spacing between the dimension lines of a base line dimension.

- A. Line type
- B. Spacing
- C. Base line spacing**
- D. None of these



76. What setting gradient allows us to fill an open area?

- A. Gap
- B. Tolerance**
- C. Transparency
- D. Open



77. Which of the following file extension cannot open the AutoCAD ?

- A. dwg.
- B. dxfc.
- C. dot
- D. dws



78. What is the minimum allowable number of layers in a drawing?

A. 0

B. 5

C. 1

D. 2



79. Which of the following is not a property of an object?

- A. Line weight
- B. Measure**
- C. Hyperlink
- D. Elevation



80. The mechanical advantage of an ideal machine is 100. For moving 2m, the effort moves through the local through

- A. 0.02 m
- B. 2 m
- C. 2.5 m
- D. 20 m



81. The percentage of C.C.A. proposed to be irrigated seasonally is called

- A) Gross Commanded Area**
- B) Uncultivated Area**
- C) Culturable Uncultivated Area**
- D) Intensity or irrigation**



82. When seepage water is sufficient for the growth of the crop and if no additional surface watering is necessary, such a dam is called

- A. Debris dam
- B. Diversion dam
- C. **Water spread dam**
- D. Gravity dam



83. Ganga Canal System is an example of

- A. Direct irrigation**
- B. Storage irrigation**
- C. Combined direct and storage**
- D. None of the above**



84. An opening provided in one side of a reservoir, with upstream liquid level below the top edge of opening is called

- A. Orifice
- B. Notch**
- C. Weir
- D. Mouthpiece



85. Structure provided to protect the land and property which is likely to be submerged during ponding of water of during floods is

- A. Groynes**
- B. Divide wall**
- C. Marginal embankments**
- D. Under-sluice**



86. Mechanism that receives data from the wind vane and instructs the wind turbine to rotate to be facing the wind is called

- A. Anemometer**
- B. Controller**
- C. Yaw motor**
- D. Yaw drive**



87. When wheels slide without revolving the phenomenon is called

- A. Skidding**
- B. Sliding**
- C. Slip**
- D. Spalling**



88. Recommended land width of major district roads in open areas in plain and rolling terrain in meters

- A. 15** **B. 20**
C. 25 **D. 45**

Recommended land width for different classes of rural roads (metre)

| Sl. No. | Road classification | Plain and rolling terrain | | | | Mountainous and steep terrain | |
|---------|-----------------------------|---------------------------|-------|----------------|-------|-------------------------------|----------------|
| | | Open areas | | Built-up areas | | Open areas | Built-up areas |
| | | Normal | Range | Normal | Range | Normal | Normal |
| 1. | National and State Highways | 45 | 30-60 | 30 | 30-60 | 24 | 20 |
| 2. | Major District Roads | 25 | 25-30 | 20 | 15-25 | 18 | 15 |
| 3. | Other District Roads | 15 | 15-5 | 15 | 15-20 | 15 | 12 |
| 4. | Village Roads | 12 | 12-18 | 10 | 10-15 | 9 | 9 |



89. The method of construction of cement concrete roads where entire width of the road is constructed continuously from one end to the other is called

- A. Strip method
- B. Continuous bay method**
- C. Full width method
- D. All of the above



90. Culvert suitable in high discharge areas and low debris flow areas are

- A. Arch culvert**
- B. Box culvert**
- C. Pipe culvert**
- D. None of the above**



91. Which pier is adopted, if the longitudinal beams or girders of the superstructure of bridge are closely spaced ?

- A. Dumb-bell piers
- B. Cylinder piers
- C. Pile bents
- D. Column bents**



92. Structure made of stones or concrete blocks or mattresses, placed on the bottom or banks of a river for minimizing and controlling the erosion

- A. Scuppers
- B. Revetment**
- C. Apron
- D. Cribs



93. Standard size of ballast for C.T.S-9 and steel sleepers

- A. 20 mm
- B. 25 mm
- C. 40 mm**
- D. 50 mm



94.The defect caused when the rail with its end or ends bent in vertical direction is called

- A. Wear of rails**
- B. Bending of rails**
- C. Hogging of rails**
- D. Creep of rails**



95. Which is the structure constructed in the form of a chamber along the sewer line to admit clear rain water into the combined sewer?

- A. Catch basin**
- B. Drop manhole**
- C. Clean out**
- D. Trap**



96. Slow sand filter is unsuitable for waters having turbidity more than

A. 40 ppm

B. 50 ppm

C. 60 ppm

D. 75 ppm



97. What is the yield of rapid sand filters as compared to slow sand filter?

- A. 15 times**
- B. 25 times**
- C. 30 times**
- D. 45 times**



98. Water taps are also known as

- A. **Bib cocks**
- B. **Goose neck**
- D. **Stop cocks**
- C. **Ferrule**



99. Valves provided to remove the accumulated silt is called

- A. Mud valve**
- B. Scour valve**
- C. Blow off valve**
- D. All of the above**



100. The sloped floor of a manhole or inspection chamber on both side and above the top of the channel is called

- A. Bedding**
- B. Barrel**
- C. Cleaning eye**
- D. Benching**



ASST. ENGG-PWD



+MANY MORE

ASST. ENGG-IRRIGATION



+MANY MORE

OVERSEER GR.III



+MANY MORE

TRACER



+MANY MORE

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