

WORK SUPERINTENDENT

SOIL SURVEY & SOIL CONSERVATION DEPARTMENT

Category No : 270/2022

▶ LIVE

Question Paper Discussion

Exam held on

13-07-2023



Ms. SRUTHY
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LIVE



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LIVE



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Sl.No	Subject	Marks
1	Basic Engineering Drawing	10
2	Surveying	16
3	Building Materials	8
4	Building Construction	22
5	Estimation	4
6	Concrete Technology	2
7	Irrigation Engineering	16

Sl.No	Subject	Marks
8	Hydraulics	2
9	Workshop calculation	6
10	Applied Mechanics	5
11	Computer fundamentals and AutoCAD	7
12	Environmental Engineering	1
13	Steel Structures	1



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1. What is the area of A0 size drawing sheet?

- A. 0.00 square metre
- B. 1.00 square metre**
- C. 2.00 square metre
- D. 4.00 square metre

1ST
RANKERS

വിവിധ സിവിൽ എഞ്ചിനീയറിംഗ് മത്സരപരീക്ഷകളിലെ സിവിലിയൻസിൽ നിന്നുള്ള ഒന്നാം റാങ്കുകാരാണിവർ



Sravan S
AE-PWD



Greeshma S
AE-Irrigation(DC)



Chithra C
AE-PWD (DC)



Prijil P T
AE-LSGD (DC)



Pouthramanu V
AE-PCB



Nikhil Soman
Junior Instructor
Draftsman Civil



Hannath N M
Work Superintendent
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Answara S
Lecturer Gr. I
Rural Egg.



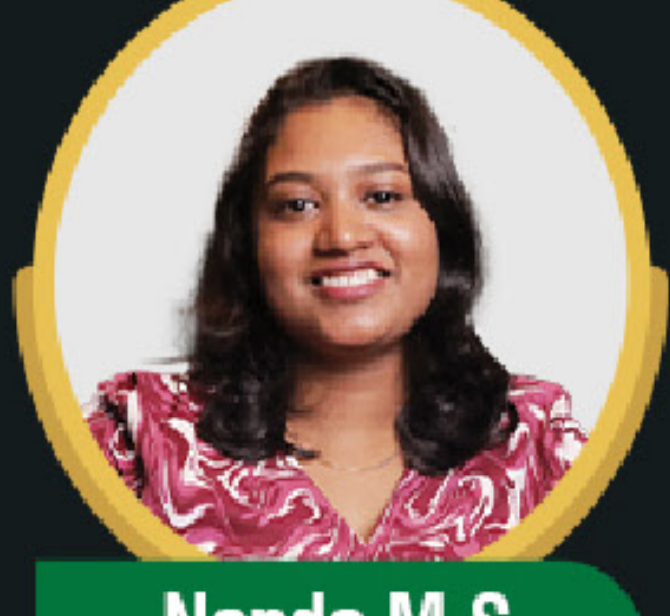
Gargi S
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CIVIL



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Nanda M S
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OVERSEER GR.I

ഇത് ചരിത്രം



Adwaith Vilas
Surveyor Gr II GW Dept.

സിവിൽ എഞ്ചിനീയറിംഗ് പി.എസ്.സി. പരീക്ഷയുടെ ചരിത്രത്തിൽ ആദ്യമായി 100 ൽ 100 മാർക്കും നേടി സിവിലിയൻസിലെ ഉദ്യോഗാർത്ഥി

AE-PWD	6 RANKS IN FIRST 10
AE-Irrigation	5 Two in every CANDIDATES IN RANKLIST IS FROM CIVILIANZ.
AE-LSGD	3 One in every CANDIDATES IN RANKLIST IS FROM CIVILIANZ.
AE-PCB	56 RANKS 100



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2. What is the use of french curves?

- A. To draw smooth curves
- B. To draw irregular curves**
- C. To draw circles, ellipses, arcs
- D. To write letters and numerals



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3. What is the description of G2 in lines of symmetry?

- A. Chain thin
- B. Chain thin double dashed
- C. Dashed thick
- D. Continuous thick



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4. Which is a small shaped instrument of the drafting machine?

- A. T scale
- B. Scale set
- C. **Mini drafter**
- D. Planimeter



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5. What is the height in mm for title of drawing ?

- A. 3.4
- B. 10, 12
- C. 6,8
- D. 4,5



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6. Which of the following is not a linear scale?

- A. Plain scale
- B. Diagonal scale
- C. Scale of chord
- D. Comparative scale



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7. What is the line of intersection of the picture plane with ground plane?

- A. Station point
- B. Picture plane
- C. Ground plane
- D. Ground line**

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8. What is the sum of interior angle and the corresponding external angle of a polygon?

- A. 0°
- B. 180°
- C. 90°
- D. 360°



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9. What is the standard line thickness of the border line?

A. 0.10 mm

B. 0.60 mm

C. 0.15 mm

D. 0.20 mm

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10. What is the point at which the conic cuts its axis?

- A. Locus
- B. Axis
- C. Directrix
- D. Vertex



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11. How many metres equals one nautical mile?

- A. 100 m
- B. 1000 m
- C. 1674 m
- D. 1852 m



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12. What is the length of one link in Engineers chain ?

- A. 20 centimetres**
- B. 30 centimetres**
- C. 1 foot**
- D. $2 \frac{1}{16}$ feet**



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13. What is the angle which the needle makes with horizontal?

- A. Declination**
- B. Dip**
- C. Bearing**
- D. Local attraction**



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14. What is the name of triangle formed by joining the three ground points in plane table survey?

- A. Well conditioned triangle
- B. Equilateral triangle
- C. **Great triangle**
- D. Scalene triangle



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15. Which test is done to make the horizontal axis perpendicular to vertical axis of a theodolite?

- A. Plate level test
- B. Cross hair ring test
- C. Collimation test
- D. Spire test

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16. Where two contours of different elevation cross each other?

- A. Vertical cliff**
- B. Overhanging cliff**
- C. Uniform slope**
- D. Valley**



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17. Where 0° is marked in prismatic compass is?

- A. North
- B. South**
- C. East
- D. Valley



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18. What is used to take inclined line of sights in plane table surveying ?

- A. U frame**
- B. Plain alidade**
- C. Telescopic alidade**
- D. Prismatic compass**



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19. What colour is used for symbol for road metalled?

- A. H-green
- B. Burnt sienna**
- C. Crimpson lake
- D. Burnt blue



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20. What is the full form of UTM ?

- A. Universal Transverse Meridian**
- B. Universal Transverse Mercator**
- C. Universal Transportation Media**
- D. Universal Traverse Median**



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21. The permissible closing error for accurate levelling is expressed as

A. $E \pm 0.100 \sqrt{Km}$

B. $E \pm 0.025 \sqrt{Km}$

C. $E \pm 0.012 \sqrt{Km}$

D. $E \pm 0.006 \sqrt{Km}$





22. What is the term used for rotating telescope in clockwise direction about its vertical axis

- A. Transiting**
- B. Right swing**
- C. Left swing**
- D. Plunging**



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23. What is meant by the departure of a line?

- A. Projection onto the east-west meridian**
- B. Projection onto the north-east meridian**
- C. Projection onto the south-east meridian**
- D. Projection onto the north-west meridian**

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24. What is the term used for line joining the optical centre of the object glass and the centre of the eye piece ?

- A. Line of collimation**
- B. Horizontal line**
- C. Axis of telescope**
- D. Height of instrument**



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25. What is the basis of GPS?

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



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26. Which of the following is the choice of co-ordinate for specifying the point?

- A. Latitude, departure and elevation**
- B. Southing, latitude, departure**
- C. Northing, southing, easting**
- D. Latitude, longitude and elevation**



27. The shortcut key for undo last action in AutoCAD

A. Ctrl+Z

B. Ctrl+Y

C. Ctrl+Shift+C

D. Ctrl+Shift+V



28. What is dpi in printing?

- A. Dash per inch
- B. Dots per inch**
- C. Dash printing ink
- D. Dot printing ink



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29. What factor mainly determines the quality of a monitor?

- A. CPU**
- B. Colour**
- C. Resolution**
- D. Hard disk**



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30. Which command controls the extents of the display of the grid?

A. Area

B. Dimension

C. Limits

D. Display



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31. Which command reinserts the last erased set of objects?

A. OOPS

B. REINSERT

C. REDO

D. COPY

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32. Which is the shortcut key for polar tracking ON/OFF?

A. F3

B. F7

C. FB

D. F10



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33. Which of the following command is used to copy the properties from one object to one or more objects ?

A. CHPROP

B. Block

C. Match properties

D. Insert block

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34. To study the mineral constituents grain size etc. is _____ test

A. Microscopic

B. Smiths

C. Water absorption

D. Acid



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35. The total height of a clamp kiln is about

A. 30 cm to 4 mm

B. 4 m to 6 m

C. 10 cm to 20 cm

D. 3m to 4 m



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36. I.S. code of clay terracing files

A. 1464-1959

B. 654-1972

C. 2690-1964

D. 712-1973



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37. I.S. code of psc

- A. 455-1989**
- B. 12330-1988**
- C. 12600-1989**
- D. T40-1985**



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38. The purpose of this test is to assess the plasticity of lime

A. Impurity test

B. Workability test

C. Plasticity test

D. Ball test



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39. In a mortar, the binding material is

A. Sand

B. Cement

C. Surkhi

D. Clay

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40. The sand particles which sand pass through 1.5875 mm is sieves are known as

- A. Coarse sand
- B. Gravelly sand
- C. Mud sand
- D. Fine sand**



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41. Grass or air bubbles are introduced into the plastic-cement mortar mix to produce a material with a cellular structure

A. Cellular concrete

B. Light weight concrete

C. No fines concrete

D. Heavy weight concrete

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42. Hot rolled deforming bars conforming to I.S. code

A. 1139

B. 1785

C. 1566

D. 226

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43. These piles are driven at an inclination to resist larger horizontal or inclined forces

- A. Sheet piles**
- B. Anchor piles**
- C. Fender piles**
- D. Batter piles**



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44. Minimum height 50 mm only three stones are to be used to make up the height of one course, mortar joint is 16 mm

- A. Coursed rubble (1st sort)**
- B. Coursed rubble (2nd sort)**
- C. Coursed rubble (3rd sort)**
- D. Coursed rubble (4th sort)**



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45. It prevent the tendency of stone Joint to pull apart. This joint is used instead of dowel Joint.

A. Cramped joint

B. Plugged joint

C. Butt joint

D. Dowelled joint





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46. _____ roof has four sloping sides with zero vertical roof lines.

A. Gable

B. Hip

C. Sheet

D. Gambrel



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47. This truss is in the form of a bow

A. Steel truss

B. Truncated truss

C. Latticed roof truss

D. Mansard truss

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48. Single joist timber floor is adopted for maximum span of

A. 4.6 m

B. 3.6 m

C. 7.5 m

D. 4 m



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49. Vertical members of brick layers scaffolding are called

- A. Ridge**
- B. Put logs**
- C. Improved**
- D. Standards**



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50. For protecting the coping and parapets _____ should be provided at various locations.

- A. D.P.C.
- B. White wash
- C. Cement
- D. Plaster



51. Garnet hinge used in

- A. Batten, ledged and braced door**
- B. Lantern window**
- C. Sky light window**
- D. Gate**



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52. Minimum slope of ramp

A. 1 in 30

B. 1 in 20

C. 1 in 10

D. 1 in 50



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53. This step has a curved rise and tread

A. Lift step

B. Dancing step

C. Commode step

D. Splayed step



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54. The timber of evergreen trees that are soft in nature

- A. Hard wood**
- B. Annual rings**
- C. Medullary rays**
- D. Soft wood**



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55. A projecting moulded stone having its under surface throated is called

- A. Drip stone**
- B. Hard stone**
- C. Soft stone**
- D. Through stone**

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56. The geometrical point from where the curve of the arch is drawn

A. Ring course

B. Crown

C. Centre

D. Clear span



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57. Front open space residential building should be provided with a front yard of minimum width of _____m.

A. 3

B. 6

C. 3.50

D. 6.50

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58. The minimum width of a habitable room shall be _____ m.

- A. 3.4
- B. 4.40
- C. 5.40
- D. 3.00



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59. NBC of India 1979 types of buildings Group-E

A. Business building

B. Assembly building

C. Institutional building

D. Residential building

GATE + AE

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60. The total usable covered area of a building

A. Covered area

B. Plinth area

C. Floor area

D. Open area



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61. Horizontal circulation area it may be _____ of plinth area.

A. 10% to 12%

B. 10% to 15%

C. 10% to 13%

D. 10% to 20%



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62. Estimation process helps in working out the _____ of construct.

- A. Labour
- B. Rate of materials
- C. Plot value
- D. Cost**



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63 Unit of payment in cement lime concrete on terracing is

A. Cu : m

B. Sq : m

C. S : ft

D. C : ft

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64. Construction work is allowed after receiving of

A. Cost

B. Bill of materials

C. Contingencies

D. Technical sanction



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65. Unit of payment in damp proof course of cement concrete

- A. sqm**
- B. cm²**
- C. cft**
- D. cu.m**



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66. Portable pipes or larger hoses may also be used in place or ditches

- A. Border flooding**
- B. Free flooding**
- C. Basin flooding**
- D. Check flooding**



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67. When the water is available at a higher level, and it is supplied to lower level by the mere action of gravity, then it is called

A. Artificial Irrigation

B. Flow Irrigation

C. Lift Irrigation

D. Well irrigation



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68. If f is the ratio of the mean supply discharge to the full capacity discharge

- A. Time factor
- B. Base factor
- C. Intensity factor
- D. Capacity factor



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69. Masonry gravity dams are now-a-days constructed of only _____ height.

A. Small

B. Big

C. Medium

D. Full width



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70. A gravity dam may be either _____ plan.

- A. Curved
- B. Beveled
- C. Circle
- D. Straight



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71. The water thus accumulated in the form of an artificial lake is known as

A. Pond

B. Reservoir

C. River

D. Streams

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72. A gravity dam is the one in which the external force such as

- A. Vacuum pressure**
- B. Wind pressure**
- C. Waver pressure**
- D. Pressure in pipe**



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73. A notch is usually made of _____ plate.

- A. Metallic**
- B. Iron**
- C. Aluminium**
- D. G. I.**



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74. Canal over the drainage

- A. Super passage
- B. Canal siphon
- C. Aqueduct**
- D. Level crossing



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75. The use of water for raising the crops is known as

A. Irrigation

B. Water supply

C. Field

D. Corps



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76. The structure, made to pass surplus flood water from reservoir to the downstream of the dam is known as

- A. Canal
- B. Spill way**
- C. Weir
- D. River



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77. The solid obstruction constructed across the river to raise the water level in river is known as

- A. Canal**
- B. Dam**
- C. Weir**
- D. Reservoir**





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78. It is passage for the flow of surplus water or waste in a weir or conduct

- A. Head work**
- B. Heard regulator**
- C. Spill way**
- D. Level passage**



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79. It include the waste discharge from sink, bath and wash basin

- A. Garbage**
- B. Sullage**
- C. Sewer**
- D. Sewerage**

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80. The flow of the water in the channel may be continuous for the whole year or seasonal

- A. Lift irrigation**
- B. Non-perennial irrigation**
- C. Artificial irrigation**
- D. Perennial irrigation**



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81. The dam made of earth is known as

- A. Earthen dam
- B. Rock filling dam
- C. Arch dam
- D. Gravel dam



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82. A _____ is a horizontal member which lintel is placed across an to support the position of the structure above it.

- A. Bottom rail
- B. Lock frame
- C. Sill level
- D. Door frame



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83. What is the minimum area of window with respect to floor area?

- A . 10% of floor area**
- B. 25% of floor area**
- C. 5% of floor area**
- D. 2% of floor area**



84. Hydraulic turbines are the machines which convert water energy into

- A. Solar energy**
- B. Electrical energy**
- C. Power energy**
- D. Mechanical energy**



85. Pelton wheel is a

- A. Tangential flow turbine**
- B. Radial flow turbine**
- C. Mixed flow turbine**
- D. Axial flow turbine**





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86. Irrigation capacity of a unit of water is

- A. Delta**
- B. Base period**
- C. Time factor**
- D. Duty**



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87. Trees grow length wise through their ends

- A. Exogenous**
- B. Endogenous**
- C. Soft wood**
- D. Hard wood**

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88. Cement paint is added in

- A. Water**
- B. Thinner**
- C. Spirit**
- D. Turpentine**



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89. 1000 cubic feet = _____ litres

- A. **28317**
- B. 28.317
- C. 283.17
- D. 0.28317



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90. Difference between circumference and diameter of a circle is 60 cm. Find the radius of the circle.

- A. 10 cm
- B. 12 cm
- C. 14 cm**
- D. 16 cm



91. Unit of temperature in SI system

- A. Kelvin**
- B. °Fahrenheit**
- C. °Celcius**
- D. Calorie**



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92. What is the height of a cylindrical tank of base area 154 Sq.cm and Volume 3080 Cub.mtr ?

A. 50 m

B. 40 m

C. 30 m

D. 20 m



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93. How many spherical balls of 2 cm radius can be made from a sphere of 24 cm diameter.

- A. 216 balls**
- B. 316 balls**
- C. 214 balls**
- D. 314 balls**



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94.1 HP = _____ Kg.m/s.

A. 4500

B. 33000

C. 75

D. 550



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95. The ratio between the ultimate stress and the working stress is called

- A. Factor of safety**
- B. Load Factor**
- C. Young's Modulus**
- D. Safe Stress**

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96. Find the efficiency of a machine having velocity ratio 5, if a force of 250 kg is applied to lift a weight of 1000 kg with the help of simple machine

A. 75 %

B. 80%

C. 85 %

D. 90 %



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97. Which of the following is not a unit of power ?

A. Nm/s

B. J/s

C. Watt

D. Nm

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WORK SUPERINTENDENT

Soil Survey and Soil Conservation Department

98. Which force act on rivet ?

- A. Tensile Force**
- B. Shear Force**
- C. Compressive Force**
- D. Bending Force**



WORK SUPERINTENDENT

Soil Survey and Soil Conservation Department

99. A stone is thrown vertically upwards with a velocity of 30 m/s. Find the maximum height to which it travels.
(Taken $g = 10 \text{ m/s}^2$)

A. 45 m

B. 50 m

C. 55 m

D. 60 m

ASST. ENGG -PWD



+Many More...

ASST. ENGG -IRRIGATION



+Many More...

ASST. ENGG -LSGD



+Many More...

PWD/IRRIGATION - OVERSEER GR.III



+Many More...

TRACER/OVERSEER GRADE III - KWA



+Many More...



+Many More...

Disclaimer:-The ranklist shown above is incomplete and limited to few toppers only due to space constraints

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+Many More

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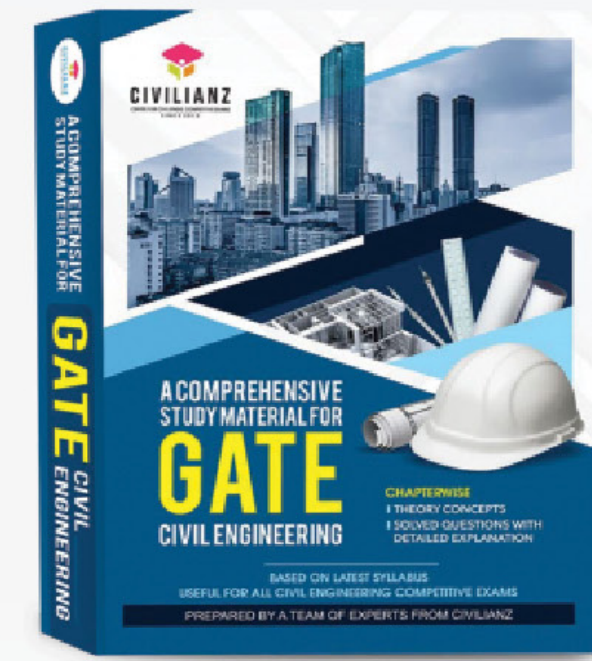
WORK SUPERINTENDENT

Soil Survey and Soil Conservation Department

100. The ratio of stress to strain within elastic limit is known as

- A. Modulus of Elasticity**
- B. Poisson's Ratio**
- C. Factor of Safety**
- D. Yield Point**

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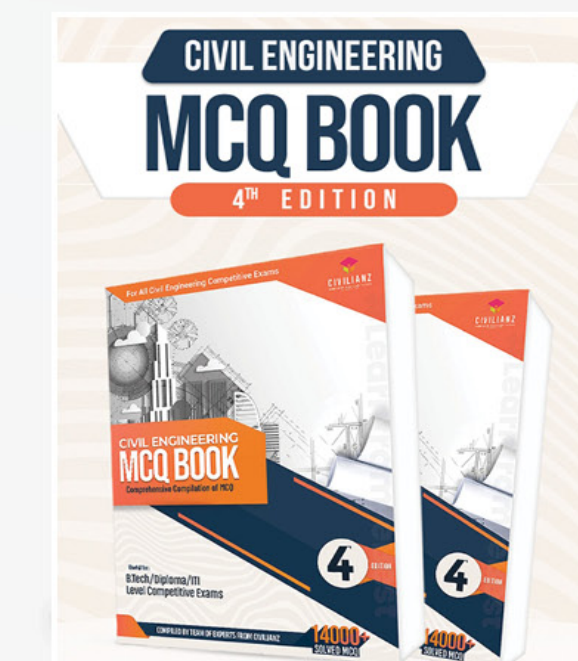
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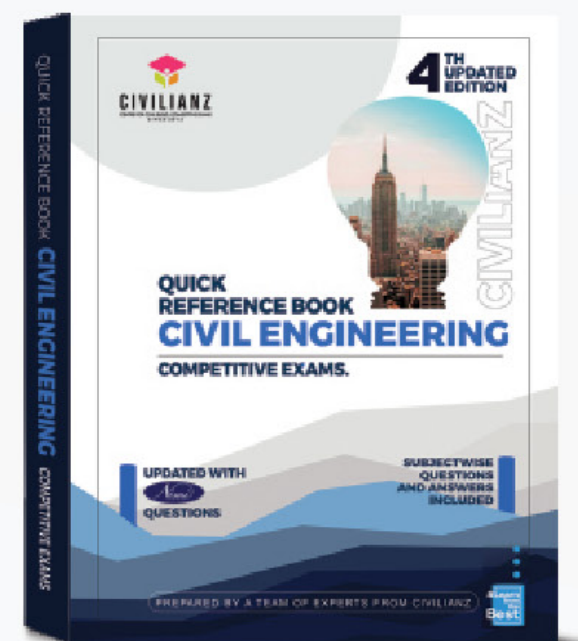
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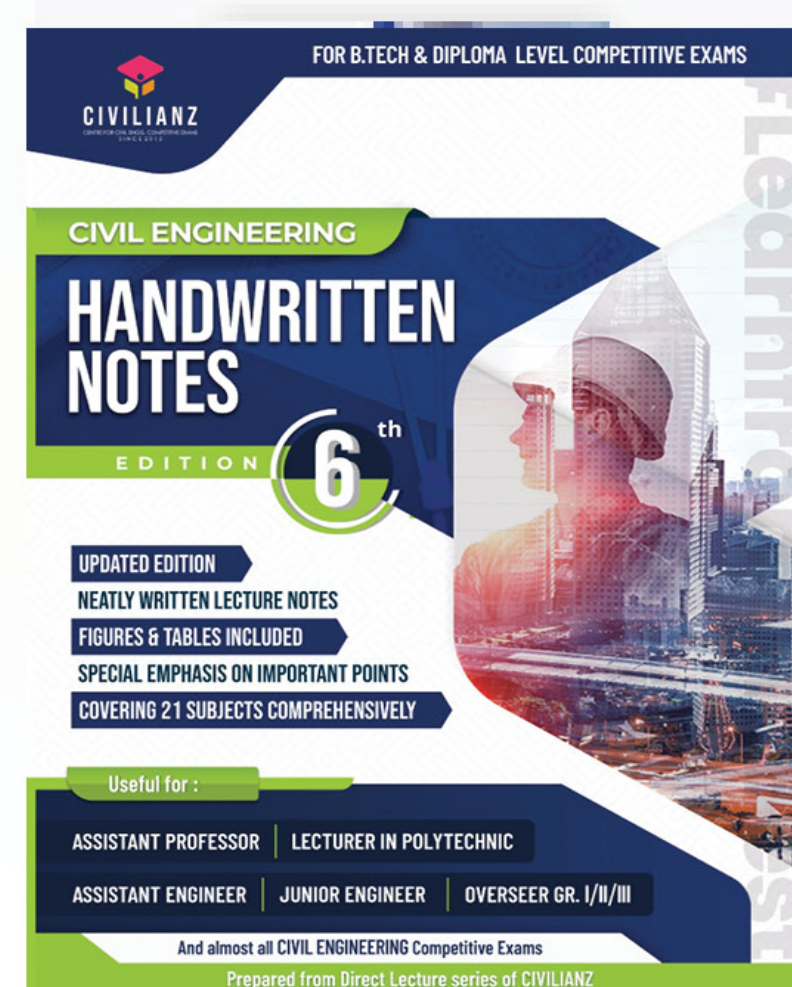
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