



# ANSWER KEY

**244/2018 (Statewide) - TRACER /OVERSEER GR. III**

**485/2020 (Statewide) - DRAFTSMAN GRADE II  
(Kerala Water Authority)**

**399/2020 (TSR) - TRACER**

**498/2020 (TVM) - WORK SUPERINTENDENT  
(Soil Survey and Soil Conservation )**

**Live Interactive  
Question Paper Discussion**

**Date : 31.07.2021 | Time : 3.30 p.m.**



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for SAMPLE CLASSES

AE



GATE



Overseer



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- Cumulative errors that are proportional to
  - $\sqrt{L}$
  - L**
  - $L^2$
  - $L/2$
- \_\_\_\_\_ are the ends of the survey lines which command the boundaries of the survey.
  - Tie station
  - Main station**
  - Base line
  - None of these
- The offset should not be longer than
  - 30 m
  - 20 m
  - 15 m**
  - 10 m
- In optical square the angle between the first incident ray and the last reflected ray is the angle between them the two mirrors.
  - half
  - twice**
  - same
  - none of these
- For compass survey the direction from a survey station to some well defined permanent object, or the first line of survey is known as



- A) True bearing
- B) Magnetic bearing
- C) Arbitrary bearing**
- D) All of these
6. The following are the bearing of the line AB and AC: AB  $N15^{\circ} 15' E$ , AC  $N87^{\circ} 10' E$  Calculate the angle BAC
- A)  $71^{\circ} 05'$
- B)  $71^{\circ} 55'$**
- C)  $71^{\circ} 15'$
- D)  $61^{\circ} 15'$
7. The image formed on the plane of cross hair by the objective is
- A) Virtual and Inverted
- B) Magnified and Inverted
- C) Real and Inverted**
- D) None of these
8. The method chiefly used for locating the details from stations, which have been previously established by triangulation
- A) Resection
- B) Radiation
- C) Intersection
- D) Traversing**
9. The absence of Chromatic Aberration is known as
- A) Aplantation
- B) Achromatism**
- C) Brightness
- D) None of these



10. For locating the river which method of plane table is used?
- A) Radiation
  - B) Intersection**
  - C) Traversing
  - D) Resection
11. The effect of curvature is to cause the objects sighted appear \_\_\_\_\_ than they really are
- A) Higher
  - B) Lower**
  - C) Same
  - D) None of these
12. The effect of refraction is
- A) Not constant**
  - B) Constant
  - C) Zero
  - D) None of these
13. In total station data is stored in
- A) Pen drive
  - B) Data Card
  - C) Micro Processor**
  - D) External Hardware
14. The minimum clearance kept between the Grillage beam in Grillage foundation is
- A) 7 cm
  - B) 8 cm**
  - C) 10 cm
  - D) 14 cm



The **Best** Way to Say

#LEARNFROMTHEBEST



## HISTORIC RESULTS IN AE-OVERSEER EXAMS

Kerala PSC Published Ranked List of Major Civil Engineering Exams on First half of 2021. The published results was that of : Assistant Engineer- PWD, Assistant Engineer- Irrigation, Junior Technical Officer, Training Instructor- Civil and Overseer- Grade 3 in PWD/Irrigation Department. Civilianz earmarked the day for historic results ever a coaching center has made in the history of Kerala PSC Civil Engineering competitive exams. Results include First Ranks in Assistant Engineer- PWD, Assistant Engineer- Irrigation and Major ranks in Overseer Grade 3 examination. Read this article about historic results in AE-Overseer Exams and rank making strategy we adopted in these major exams.

To Read Article



## SYLLABUS

Syllabus of ASSISTANT ENGINEER/ HEAD DRAFTSMAN/ ASSISTANT DIRECTOR (CIVIL)/ INSTRUCTOR and other upcoming Assistant Engineer Exams.



## CIVILIANZ BLOG

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15. The pile anchor down the structure subjected to uplift pressure due to overturning moment
- A) Sheet pile
  - B) Uplift pile**
  - C) Batter pile
  - D) Screw pile
16. Safe permissible load on coursed rubble in cement mortar
- A) 90 T/M<sup>2</sup>
  - B) 45 T/M<sup>2</sup>
  - C) 88 T/M<sup>2</sup>**
  - D) 100 T/M<sup>2</sup>
17. The depth of lintel should be
- A) 15 cm
  - B) 8 cm
  - C) 10 cm**
  - D) 20 cm
18. The diameter of bar used in lintel for span 1.5 to 2 m
- A) 16 mm
  - B) 10 mm**
  - C) 6 mm
  - D) 12 mm
19. The sloping surface used to provide an easy connection between floor
- A) Stair
  - B) Ramp**
  - C) Lift
  - D) Escalator



20. What is the alignment of cross joint along the plumb line ?
- A) Lintel
  - B) Perpend**
  - C) Bed Block
  - D) Vertical Line
21. The process of filling hollow space of walls before plastering is known as
- A) Peeling
  - B) Blistering
  - C) Hacking
  - D) Dubbing out**
22. Additional Pozzolana to ordinary portland cement increases
- A) Bleeding
  - B) Shrinkage**
  - C) Permeability
  - D) Heat of hydration
23. Wrought iron is manufactured from pig iron by
- A) Refining
  - C) Shingling
  - B) Pudding
  - D) All the above**
24. Temporary structure to support arch during its construction
- A) Shuttering
  - B) Support
  - C) Post
  - D) Centering**



# OUR TOPPERS IN ASSISTANT ENGINEER-PWD



**1<sup>st</sup>**  
Rank

**Mark our words!**

The same will happen for AE LS GD

**6 RANKS IN FIRST 10**



George Joseph



Shobin Reji



Jithin J S



Ajin P John



Akhil Thomas

|  |   |  |  |   |   |   |   |   |  |  |  |
|--|---|--|--|---|---|---|---|---|--|--|--|
| <br>Siveji J S      | <br>Cynthia              | <br>Sebin Xavier      | <br>Preji p           | <br>Arsha S        | <br>Swathy S         | <br>Jithin M S       | <br>Sreeraj S         | <br>Reva Venu            | <br>Pavithra v        | <br>Jewel Abraham   | <br>Sabitha B S       |
| <br>Ashok B Jacob   | <br>Anu k                | <br>Hafees M          | <br>Prince George     | <br>Shameem S      | <br>Rishad M K       | <br>Amrutha K        | <br>Aswathy Ann       | <br>Sachin C             | <br>Francis G C       | <br>Krishnan K N    | <br>SnehaPoornima     |
| <br>Kavya T         | <br>Jithun N             | <br>Panchmi M V       | <br>Sajay S           | <br>Nithin A       | <br>Nikhil Soman     | <br>Dona Eliza Joy   | <br>Kavya S           | <br>Kiran Prasad         | <br>Migeesh K M       | <br>Sreehari S      | <br>Sreejesh S P      |
| <br>Jipin Krishna   | <br>Krishna Praseeda     | <br>Ashna Varghese    | <br>Monika P          | <br>Jibin Pradeep  | <br>Sreelakshmi N    | <br>Anand S Raj      | <br>Arjun Raj R       | <br>Asha J S             | <br>Angelina Cathie   | <br>Rahul R         | <br>Abhijith Sathya   |
| <br>Namitha S S    | <br>Safwan T            | <br>Jayakrishnan J S | <br>Renjini R        | <br>Alen Austin   | <br>Nisma E A       | <br>Visakh V S      | <br>Ajin M           | <br>Sarga Radhakrishnan | <br>Gokul A          | <br>Ajay Chandran  | <br>Akhil K V        |
| <br>Viswanath M   | <br>Meera S Prasad     | <br>Devdas G        | <br>Jesin Rajan     | <br>Rajesh V     | <br>Jomy G Jose    | <br>Keerthi Kiron  | <br>Deepu S         | <br>Archana E S        | <br>Anagha K C      | <br>Yadu Krishnan | <br>Aravind M       |
| <br>Sebin John V  | <br>Anjana A           | <br>Anupriya R S    | <br>Athira Vijayan  | <br>Jothin A     | <br>Rahul R        | <br>Anand S        | <br>Chanthu R       | <br>Sithara S K        | <br>Aravind S       | <br>Arun R T      | <br>Aparna Chandran |
| <br>Shaheer K     | <br>Archa Raj D        | <br>Sily S Raj      | <br>Ajmal Basha A   | <br>Soorya S R   | <br>Anand G M      | <br>Arathy S       | <br>Anusree Babu    | <br>Anand G M          | <br>Arathy S        | <br>Anusree Babu  | <br>Prajisha J P    |
| <br>Christina S   | <br>Pooja Sunil        | <br>Chandralekha    | <br>Arun K A        | <br>Kiran Das D  | <br>Sreelekshmi J  | <br>Revathy C V    | <br>Tintu Raj       | <br>Linsha P           | <br>Ashish V        | <br>Neeraj J      | <br>Ammu David      |
| <br>Salini G S    | <br>Neetha Mathew      | <br>Sophia Roy      | <br>Gokul S Nair    | <br>Jeni Jose    | <br>Sreevidya S    | <br>Mekhana S S    | <br>Hebru M J       | <br>Jyothis P          | <br>Hareesh P K     | <br>Rishika R Y   | <br>Anoop Chandran  |
| <br>Sankar Bose   | <br>Fahmida Fathima    | <br>Saranya S       | <br>Sharook S       | <br>Melen C Paul | <br>Rajkrishnan R  | <br>Poojalakshmi S | <br>Gowri R         | <br>Irshad K           | <br>Anaswara C S    | <br>Reshma P Raj  | <br>Marva T A       |
| <br>Akshara S     | <br>Akshara Sivaprasad | <br>Anju V          | <br>Aravind Sarma V | <br>Mathews J E  | <br>Sneha Rachel C | <br>Raseena E      | <br>Sajna K M       | <br>Althaf A           | <br>Krishna Priya S | <br>Aprna V       | <br>Arya M R        |
| <br>Anuja Vijayan | <br>Anuja R L          | <br>Nandagopal S    | <br>Greeshma G S    | <br>Akhaykumar   | <br>Shilpa Sodhi   | <br>Arya Raj       | <br>Vaishakh Sekhar | <br>Abhijith R Nair    | <br>Jyothis V       | <b>+ Many More</b>   |  |

Checkout our Historic Results



25. The straight line which is generating the surface of the cone is called
- A) Generator
  - B) Vertex
  - C) Axis
  - D) Base
26. The point of contact between the focal sphere and section plane is called
- A) Vertex
  - B) Axis
  - C) Generator
  - D) Focus
27. For reducing and enlarging drawing from an available drawing without converting numerical value is called
- A) Compass
  - B) Proportional Divider
  - C) Set square
  - D) Planimeter
28. In first angle projection object is situated plane of projection of the observers eye and the
- A) Infront
  - B) In between
  - C) None of these
  - D) Both A and B
29. A solid having four equal equilateral triangular faces
- A) Pyramid
  - B) Tetrahedron
  - C) Cone
  - D) Polygon



30. An actual length of 5 m of a room is represented by 25 mm length on drawing RF will be
- A) 1:20
  - B) 1:200**
  - C) 1:2000
  - D) 1:2
31. The amount of water held in the soil after excess gravitational water has been drained
- A) Wilting coefficient
  - B) Saturation capacity
  - C) Field capacity**
  - D) None of these
32. The Canal located outside the command area meant primarily to convey water from one source of supply to another within the same
- A) Feeder Canal**
  - B) Distributory
  - C) Diversion Canal
  - D) None of these
33. The structure constructed at the off take of the canal adjacent to the river under sluice
- A) Diversion head work.
  - B) Outlet
  - C) Inlet
  - D) Head Regulator**
34. The usual capacity of tube well is \_\_\_\_\_ cumecs
- A) 0.056
  - B) 0.56
  - C) 0.004
  - D) 0.040**



35. Duty of an irrigation tube well is \_\_\_\_\_ than that of a canal irrigation.
- A) Higher
  - B) Lower
  - C) Same
  - D) None of these
36. The property of a fluid which offers resistance to the movement of one layer of fluid over another layer of fluid
- A) Specific Gravity
  - B) Viscosity
  - C) Density
  - D) None of these
37. The rate of increase of pressure in a vertical direction equal to weight density of fluid at that point
- A) Hooks Law
  - B) Hydraulics Law
  - C) Hydrostatic Law
  - D) None of these
38. Piezometer is used for measuring
- (A) Velocity
  - B) Pressure
  - C) Temperature
  - D) Viscosity
39. The type of flow in which the fluid characteristics like velocity, pressure, density etc. do not change with time
- A) Steady flow
  - B) Uniform flow
  - C) Compressible flow
  - D) Laminar flow



# Best Results for GATE 2020 Civil Engineering in Kerala



AJAY S R



ANJANA M J



ZIZA F



SETHULAKSHMI G



RENU S



ARJUN V PRADEEP



ANU S DAS



MANEESHA THOMAS



HAROON H



FATHIMA S



ARCHA S VASANTHAN



VANI MOHAN V



DEVIKA HARIKUMAR



AMAL RAJ



DENNIS S



AJAY KRISHNA



RAHUL S



ABDULLAH FAIZY S



ATHIRA H S



NEETHU S SANTHOSH



BIBINA M L



VARSHA A



GOPIKA PRAKASH



ANNA MARY JOHN



SRUTHI RAJ



SANKARAN K



SIJO S S



ARUNDHATHY R NAIR



GOPIKA VIJAYAN



CHANDANA BABU S



REVATHY SURESH



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40. Command used to remove the selected object from a drawing
- A) Remove
  - B) Erase**
  - C) Extrude
  - D) All the above
41. Which command create a new objects parallel to the original object?
- A) Parallel
  - B) Offset**
  - C) Copy
  - D) Mirror
42. Which command draw line that extends infinity in both direction ?
- A) Line
  - B) Poly line
  - C) X Line**
  - D) None of these
43. Brick walls are measured in M<sup>2</sup> if the thickness of the wall is
- A) 10 cm**
  - B) 15 cm
  - C) 20 cm
  - D) None of these
44. According to Indian Standard Institute the actual size of modular brick is
- A) 23 x 11.5 x 7.5 cm
  - B) 25 x 13 x 7.5 cm
  - C) 19 x 9 x 9 cm**
  - D) 20 x 10 x 10 cm



45. The measurement is not made in  $M^2$  ion case of
- A) DPC
  - B) Form Works
  - C) Concrete Jeffries
  - D) R. C. Chajja
46. Due to change in price level, a revised estimate is prepared if the sanctioned estimate exceeds
- A) 2%
  - B) 2.5%
  - C) 4%
  - D) 5%
47. While preparing a detailed estimate area should be measured correct to
- A)  $.01 M^2$
  - B)  $.02 M^2$
  - C)  $.001 M^2$
  - D)  $.0001 M^2$
48. A \_\_\_\_\_ is a set of rules that specify the standard for constructed objects such as buildings and non-building structures.
- A) Building Code
  - B) Building by laws
  - C) IS Code
  - D) Procedure
49. Combination of two or more plots as a single plot is called
- A) Amalgamation
  - B) Frontage
  - C) Bifurcation
  - D) Building set back



*Congratulations*

# GATE 2021

Toppers from CIVILIANZ



GATE 2022 

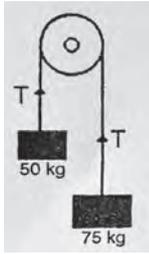
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50. The property by which lime will set in damp place
- A) Harated Lime
  - B) Hydraulicity**
  - C) Calcination
  - D) Slaking
51. The deformation per unit length is called
- A) Stress
  - B) Strain**
  - C) Young's Modulus
  - D) Bulk Modulus
52. The unit of force in CGS system of unit is called
- A) Dyne**
  - B) Newton
  - C) Kilogram
  - D) All of those
53. Two forces act at an angle of  $120^\circ$ . If the greater force is 50 Kg and their resultant is perpendicular to the smaller force, the smaller force is
- A) 20 Kg
  - B) 25 Kg**
  - C) 30 Kg
  - D) 35 Kg
54. The moment of inertia of circular lamina of diameter (d) about an axis perpendicular to the plane of the lamina and passing through its centre
- A)  $\pi D^4/12$
  - B)  $\pi D^4/16$
  - C)  $\pi D^4/24$
  - D)  $\pi D^4/32$**



55. Two loads of 50 kg and 75 kg are hung at the ends of a rope passing over a smooth pulley shown in figure below. The tension in the string is



- A) 50 kg  
 C) 25 kg  
 B) 75 kg  
 D) 60 kg
56. A body of weight 300 KN is placed on a horizontal plane. If the coefficient of friction between the body and the horizontal plane is 0.25. Determine the horizontal force required to just slide the body
- A) 50 KN  
 B) 65 KN  
 C) 75 KN  
 D) 85 KN
57. The forces whose line of action lie on the same lines are known as
- A) Coplanar forces  
 B) Collinear forces  
 C) Concurrent forces  
 D) Equilibrant forces
58. A dimension is stated as  $28 \pm 0.02$  mm in a drawing. What is the tolerance ?
- A) 28 mm  
 B) +0.02 mm  
 C) -0.02 mm  
 D) 0.04 mm



59. Which of the following is not the correct method of expressing a Fit under BIS system of limits and fits?

A) 50 H8/g7

B) 50 g7/H8

C) 50 H9-g7

D) 50 H9/g7

60. Identify the Pneumatic symbol.



A) Electric motor

B) Pump

C) Hydraulic motor

D) Accumulator

61. Telescopic gauge is used for

A) Measuring inside size of slots or holes

B) Checking taper bores

C) Checking the clearance between mating surfaces

D) Check pitch of the given screw

62. In a M20 thread, M denotes

A) Metric

B) Millimeter

C) Morse

D) Major diameter

63. The least count of Vernier bevel protractor is

A)  $1^\circ$

B)  $0.5^\circ$



# OUR TOPPERS IN ASSISTANT ENGINEER-IRRIGATION

2 in every 5 candidates of AE Irrigation (Mainlist) is from CIVILIANZ



|                       |                   |                              |                    |                |               |                  |                    |                   |                  |                   |                |
|-----------------------|-------------------|------------------------------|--------------------|----------------|---------------|------------------|--------------------|-------------------|------------------|-------------------|----------------|
| George Joseph         | Anuja R L         | Ajay S R                     | Deepu S            | Swathy S       | Salini G S    | Gouri R L        | Silpa S Indran     | Arun K A          | Jayakrishnan J S | Ashok B Jacob     | Jithin M S     |
| Sithara S K           | Jyothis P Joseph  | Akhil S                      | Ajay Chandra P V   | Shobin Reji    | Arun Raj R    | Anand S          | Vishnu Sreekumar   | Chanthu R         | Murshida         | Sachin C          | Jibin Pradeep  |
| Arjun G L             | Jipin Krishna T K | MOHAMMED RAMEEZ<br>YASIN V F | Aravind Sarma      | Athira Vijayan | Kiran Das D   | Dhrisya K B      | Monika P           | Vaishnav V K      | Ajin P John      | Cynthia Fernandez | Arya S Kannan  |
| Anu K S               | Athira K          | Pavithra V                   | Anand G M          | Meera S Prasad | Renjini R     | Preji P          | Krishna Praseeda P | Sruthi R          | Aparna chandran  | Sravan S          | Nithin A       |
| Merin V George        | Hisham Ajmal      | Athira S Raj                 | Jithin J S         | FRANCIS GEORGE | Akhil K V     | Rekha K          | Sajna S            | Devadas G         | Jeny Jacob       | Jeena Joseph      | Akshara S      |
| Revathy C V           | Anand K V         | Kavya T                      | Rajesh V           | Rishika R Y    | Gokul S Nair  | Merin Grace Baby | Sebin John         | Lakshmi S G       | Niranjana M      | Nimmi K P         | Siveji J S     |
| Sooraj K              | Krishnan K N      | Abhijith M G                 | Jithu N            | Ashna Varghese | Anuja Vijayan | Rugma Chand R    | Keerthi Kiron      | Sreehari S        | Anupriya R S     | Revathy M         | Sreelakshmi AR |
| Shruthi D A           | Nevin Santhosh    | Athira Thomas                | Prajisha J P       | Sebin Xavier   | Sarga R       | Gokul A          | Gargi S            | Namitha S S       | Ashik N          | Ben Thomas Oommen | Swathi R       |
| Sreeraj S             | Anuja N           | Anju V                       | Linsha P           | Greeshma G     | Neeraj J      | Emmanuel Jose    | Aleena Mathew      | Anandapadmanabhan | Gayathri V S     | Tharun Thilak     | Praphuraj      |
| Priyamol Eldho        | Sreerag R         | Varsha J Nair                | Chandralekha S     | Anand dev B G  | Basil S Jacob | Anand J Nair     | Dhanisha M         | Hari Krishna      | Jayalekshmi B    | Sabitha B S       | Ammu David     |
| Jithya M J            | Jomy G Jose       | AnuSree Babu                 | Lekshmi S T        | Irshad K       | Soorya S      | Arun R T         | Anjana U S         | Jesin Rajan       | Sravya S         | Meenakshi S       | Sadiq M        |
| Jishnu K              | Deepa Ratheesh    | Mohammed Shaheeqe            | Ivan Biju Varghese | Merin S Raju   | Megha Sindhu  | Viswanath M      | Arun N             | Drishya P         | Liji L V         | Sreelakshmi J S   | Rahul R        |
| Farzeen mujeeb Rahman | Shameem Shapahn   | FASNA P                      | Snehapoomima       | Karthika M S   | Aiswarya M    | Neaha Yohannan   | Loraine Joy        | Athira C          | Anupama B        | Pooja Lakshmi S   | Akhil Thomas   |

C) 5'

D) 5"

64. The minimum edge distance for rivets of diameter (d) in steel plates shall be

A) 2d

B) 3d

C) 1.5d

D) 2.5d

65. A heat engine converts the heat energy from fuel combustion or any other source into which type of work ?

A) Electrical work

B) Mechanical work

C) Pressure work

D) None of these

66. The ignition quality of petrol is expressed by

A) Cetane number

B) Octane number

C) Calorific value

D) All of these

67. General gas equation is

A)  $pV = RT$

B)  $pV = mRT$

C)  $pV = \text{constant}$

D)  $pV^n = \text{constant}$

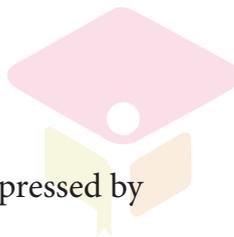
68. A system which is completely uninfluenced by the surrounding is called

A) Open System

B) Closed System

C) Isolated System

D) Properties of System



CIVILIANZ



69. When a process are performed on a system in such a way that the final state is identical with initial state known as
- A) State of a system
  - B) Thermodynamic cycle**
  - C) Thermodynamic property
  - D) Zeroth Law of Thermodynamics
70. The extension line should extend 3 mm beyond the
- A) Outline
  - B) Centre line
  - C) Dimension line**
  - D) Hidden line
71. The amount of heat absorbed to evaporate 1 Kg of water from its saturation temperature, without change of temperature, is called
- A) Sensible heat of water
  - B) Latent heat of vaporization**
  - C) Enthalpy of steam
  - D) Entropy of steam
72. If petrol is used in a diesel engine, then
- A) Low power will be produced
  - B) Efficiency will be low
  - C) Higher knocking will occur**
  - D) Black smoke will be produced
73. When the whole body is sectioned at its middle, then the sectional view is obtained is
- A) Half section**
  - B) Full section
  - C) Off-set section
  - D) Broken section

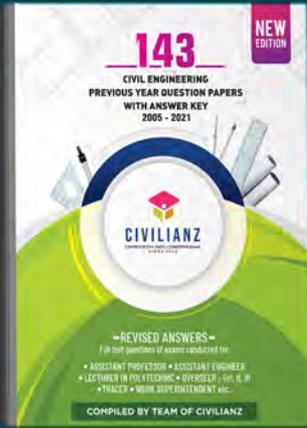




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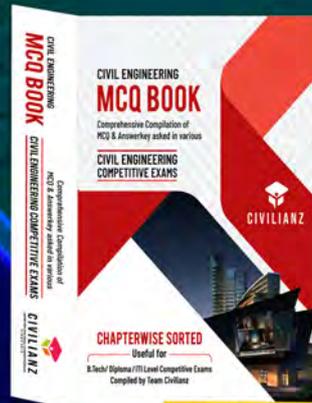
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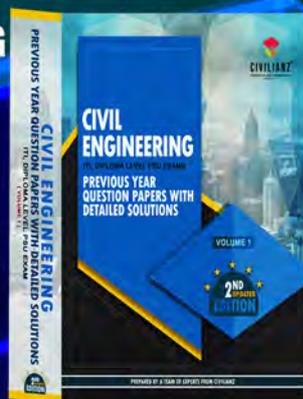


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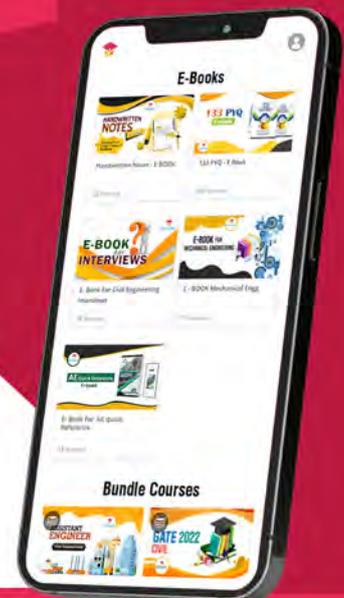
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74. The formula for finding the volume of a solid sphere is

A)  $\frac{1}{3} \pi r^3$

B)  $\frac{4}{3} \pi r^3$

C)  $\frac{3}{4} \pi d^3$

D)  $\frac{4}{3} \pi r^2 h$

75. If  $x+y = 32$  and  $x-y = 10$ , then the value of  $x$  is

A) 11

B) 22

C) 42

D) 21

76. Find the mean in the numbers 18, 22, 15, 32, 10, 23, 20

A) 20

B) 32

C) 18

D) 15

77. A pyramid with a square base has \_\_\_\_\_Faces.

A) 4

B) 5

C) 6

D) 8

78. Melting point of ice is

A)  $0^{\circ}\text{F}$

B)  $100^{\circ}\text{C}$

C)  $100^{\circ}\text{F}$

D)  $32^{\circ}\text{F}$



79. If the circumference of the square is 16 cm then the area of the same is \_\_\_\_\_ cm<sup>2</sup>
- A) 16  
B) 32  
C) 64  
D) 25
80. The lateral development of a cylinder is of \_\_\_\_ shape
- A) Triangle  
B) Circle  
C) Ellipse  
D) Rectangle
81. In a cabinet type of oblique projection, the receding edge is taken as
- A) Half  
B) Full  
C) 85%  
D) Double
82. When a 10 cm line in a drawing represents a 5 cm edge of an actual object then the scale of drawing is
- A) 1:1  
B) 5: 10  
C) 1:2  
D) 2:1
83. Lines of hidden edges are drawn with
- (A) Continuous thick lines  
B) Dashed lines  
C) Alternately long and short lines  
D) Wavy lines



84. If a line is inclined at  $45^\circ$  to the HP and  $30^\circ$  to the VP, its front view is inclined at
- A)  $30^\circ$  to XY
  - B) Between  $30^\circ$  and  $45^\circ$  to XY
  - C)  $45^\circ$  to XY
  - D) Greater than  $45^\circ$
85. What is the nominal shape of septic tank?
- A) Square
  - B) Circular
  - C) Rectangle
  - D) Oval
86. Which gas is mainly produced in septic tank?
- A) Oxygen
  - B) Nitrogen
  - C) Hydrogen
  - D) Hydrogen sulphide
87. Which type of trap is used in Indian water closet?
- A) S Trap
  - B) P Trap
  - C) U Trap
  - D) Gully Trap
88. What is the first stage in sewage treatment process?
- A) Sedimentation
  - B) Filtration.
  - C) Screening
  - D) Softening
89. Which device is used to prevent sewer gases from entering the building ?
- A) Filter
  - B) Ventilator



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C) Vacuum Pump

D) Trap

90. What is the name of the water coming out of the kitchen, bathroom, wash basin ?

A) Sullage

B) Garbage

C) Sewage

D) Discharge

91. Poise is the unit of

A) Mass density

B) Kinematic viscosity

C) Viscosity

D) Velocity gradient

92. Mass per unit volume is known as

A) Specific gravity

B) Density

C) Viscosity

D) Discharge

93. Manometer is a device used for measuring

A) Pressure at any point in a fluid

B) Velocity at any point in a fluid

C) Discharge of a fluid

D) Temperature at any point in a fluid

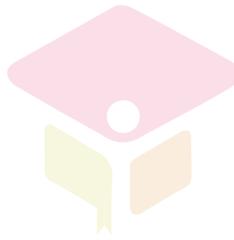
94. The increase of temperature

A) Increase the viscosity of liquid

B) Decrease the viscosity of liquid

C) Decrease the viscosity of gas

D) Partially increase or decrease the viscosity of liquid



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95. Pitot Tube is used for measurement of
- A) Pressure
  - B) Discharge
  - C) Temperature
  - D) Fluid flow velocity**
96. A Francis Turbine is
- A) An impulse turbine
  - B) A radial flow impulse turbine
  - C) An axial flow turbine
  - D) A reaction radial flow turbine**
97. An object situated in first quadrant, that means
- A) Below HP and behind VP
  - B) Above HP and behind VP
  - C) Above HP and in front of VP**
  - D) Below HP and in front of VP
98. The Standard size of D3 Drawing board is
- A) 700 x 500 x 25 mm.
  - B) 700 x 500 x 15 mm
  - C) 500 x 350 x 25 mm
  - D) 500 x 350 x 15 mm**
99. Dodecahedron is a solid having \_\_\_\_\_ equal and regular pentagons
- A) 10
  - B) 11
  - C) 12**
  - D) 15
100. The view drawn by taking actual dimension without preparing isometric scale is called
- A) Isometric View**
  - B) Isometric Projection
  - C) Oblique Projection
  - D) Perspective Projection



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