

IOCL GE Civil Memory Based Paper 24 Sept. 2026

Q1. Sand replacement method or core cutter method is used to determine:

- (a) consolidation of soil
- (b) in-situ unit weight of soil
- (c) permeability of soil
- (d) consistency limits of soil

Ans.(b)

Q2. Which of the following describe the appropriate set of ordinate rules?

- (a) Average ordinate rule, Trapezoidal rule
- (b) Mid-ordinate rule, Mean ordinate rule
- (c) Mid-ordinate rule, Average ordinate rule
- (d) Trapezoidal rule, Mean ordinate rule

Ans.(c)

Q3. If a city has average daily consumption of 200,000 m³, what will be the maximum daily consumption on peak hourly demand?

- (a) 280000 m³
- (b) 340000 m³
- (c) 400000 m³
- (d) 540000 m³

Ans.(d)

Q4. A solid circular shaft has been subjected to pure torsion moment. The ratio of maximum shear stresses to maximum normal stress at any point unit length

- (a) 1 : 2
- (b) 1 : 1
- (c) 2 : 3
- (d) 2 : 1

Ans.(b)

Q5. Calculate the cost of the plastering required for a wall of 4m long, 3.5m high and 300mm thick, if the rate plastering is Rs. 12 per. Square meter.

- (a) 101
- (b) 168
- (c) 336
- (d) 423

Ans.(c)

Q6. In a river silt excluder and silt ejector are constructed

- (a) At a location after the head regulator and at the head of canal respectively
- (b) At the head of the canal and at a location after head regulator respectively
- (c) At the same location
- (d) At specific location depending upon diverse factors and their location do not follow a set pattern

Ans.(b)



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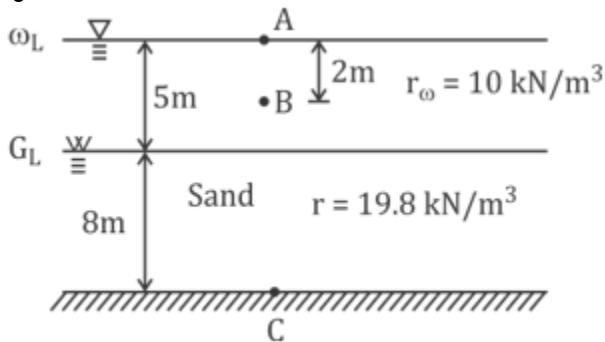


Q7. What will be the theoretical maximum capacity for a single lane of highway if the speed of the traffic stream is 40 kmph?

- (a) 3000 vehicles/hr.
- (b) 2010 vehicles/hr.
- (c) 2510 vehicles/hr.
- (d) 2860 vehicles/hr.

Ans.(d)

Q8. A section of lake view is below



Change of Effective Stress in sand layer below a lake at C due change of water level from A to B

- (a) Increase by 20 kN/m^2
- (b) Decrease by 20 kN/m^2
- (c) Remain unchanged
- (d) Increase by 50 kN/m^2

Ans.(c)

Q9. The difference between the total float and free float is known as

- (a) Free float
- (b) Total float
- (c) Independent float
- (d) Interfering float

Ans.(d)

Q10. Find the Eigenvalues λ in the system $\begin{bmatrix} 4 & 1 \\ 3 & 2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \lambda \begin{bmatrix} x \\ y \end{bmatrix}$

- (a) 1 and 5
- (b) 4 and 3
- (c) 1 and 2
- (d) 2 and 4

Ans.(a)

Q11. The integrating factor of equation $\sec^2 y \cdot \frac{dy}{dx} + x \tan y = x^3$ is

- (a) $[e]^{x^2/2}$
- (b) $[e]^{-x^2/2}$
- (c) $[e]^{x/2}$
- (d) $[e]^{-x/2}$

Ans.(a)

Q12. In a simply supported beam of span L subjected to central concentrated load, the central deflection is 24 mm. Then the slope at supports is:

- (a) $(48/L)$ radians
- (b) $(36/L)$ radians
- (c) $(24/L)$ radians
- (d) $(72/L)$ radians

Ans.(d)

Q13. If L is the length of vehicles in meters C is the clear distance between two consecutive vehicles (Stopping sight distance), V is the speed of vehicles in km per hour, the maximum number N of vehicles/hour is _____.

- (a) $N = \frac{1000C}{L + V}$
- (b) $N = \frac{1000L}{C + V}$
- (c) $N = \frac{L + C}{1000V}$
- (d) $N = 100 L/C + V$

Ans.(d)

Q14. Determine the safe stopping speed distance for a design speed of 14 m/s for two-way traffic on a two-lane road assuming the coefficient of friction as 0.28 and reaction time as 2 seconds.

- (a) 63.67 m
- (b) 61.47 m
- (c) 53.27 m
- (d) 73.57 m

Ans.(a)

Q15. According to Air Quality Index (AQI) manual, the level of concern for value of index between 151-200, corresponds to

- (a) Moderate
- (b) Unhealthy
- (c) Very-unhealthy
- (d) Hazardous

Ans.(b)

Q16. _____ is a slow, gradual, but unexplainable shift in the position of the earth's magnetic meridian over a regular cycle.

- (a) Annual variation
- (b) Diurnal variation
- (c) Secular variation
- (d) Irregular variation

Ans.(c)

Q17. Convert quadrantal bearing S $31^{\circ}36'$ E to whole circle bearing.

- (a) $210^{\circ}36'$
- (b) $120^{\circ}36'$
- (c) $148^{\circ}24'$
- (d) $329^{\circ}36'$

Ans.(c)

Q18. If the magnetic quadrantal bearing of a line is S $46^{\circ}30'$ W and magnetic declination at that place is $2^{\circ}30'$ E, then true whole circle bearing of that line will be

- (a) 229°
- (b) 224°
- (c) 148°
- (d) 48°

Ans.(a)

Q19. The expression for design strength of members under axial tension, T_{dg} is given by yielding of gross section (A_g) yield stress of the material (f_y) and partial safety factor (γ_{mo}) for failure in tension by yielding, will be:

- (a) $T_{dg} = A_g f_y / \gamma_{mo}$
- (b) $T_{dg} = A_g / f_y \gamma_{mo}$
- (c) $T_{dg} = \gamma_{mo} / A_g f_y$
- (d) $T_{dg} = f_y / \gamma_{mo} A_g$

Ans.(a)

Q20. Calculate the tensile strength due to gross yielding of an angle ISA $150 \times 150 \times 10$ mm, made of Fe410 grade steel. Take, partial safety factory as 1.1 and gross section area (A_g) = 2903 mm^2

- (a) 524.98 kN
- (b) 449.47 kN
- (c) 789.44 kN
- (d) 659.77 kN

Ans.(d)

Q21. Which of the following statements are correct?

- I. Summit curves are vertical curves with convexity downwards.
- II. Simple parabola is the ideal form of the curve for summit curve.
- III. In actual practice circular curve is used in summit curve.

- (a) I, II & III all
- (b) I & II only
- (c) II only
- (d) None of the above

Ans.(d)

Q22. Determine the limiting moment of resistance of the singly reinforced beam section of size 100×200 mm effective to carry a factored moment of 200 kNm. The concrete mix and steel used is M20 and Fe415, respectively.

- (a) 22.21kNm
- (b) 26.50 kNm
- (c) 18.25kNm
- (d) 11.10 kNm

Ans.(d)

Q23. What is the value of the slope required for coning of the wheel?

- (a) 1 in 10
- (b) 1 in 15
- (c) 1 in 20
- (d) 1 in 25

Ans.(c)

Q24. Coning of train wheels is done for the purpose of-

- (a) For reducing the self weight of wheels
- (b) Enabling the train wheels to cover different distances along the inner and outer curves simultaneously
- (c) For reducing the frictional contact surface area with the rails
- (d) For decorative purposes

Ans.(b)

Q25. In a "coning" plume, the pollutants spread out in a shape resembling a cone. This usually occurs under what atmospheric condition?

- (a) Superadiabatic conditions
- (b) Subadiabatic conditions (stable)
- (c) Neutral conditions
- (d) Strong inversion at ground level

Ans.(c)

Q26. What is cavitation?

- (a) Formation and collapsing of vapour bubbles formed due to pressure variation.
- (b) Formation and collapsing of vapour bubbles formed during temperature variation.
- (c) Formation and collapsing of vapour bubbles formed due to change in the direction of flow.
- (d) Deposition of sediments in the flow channel.

Ans.(a)

Q27. For a uniform flow with depth of 0.6 m and Froude number of 2.0 rectangular channel, the specific energy will be-

- (a) 0.8 m
- (b) 2.6 m
- (c) 4.8 m
- (d) 1.8 m

Ans.(d)

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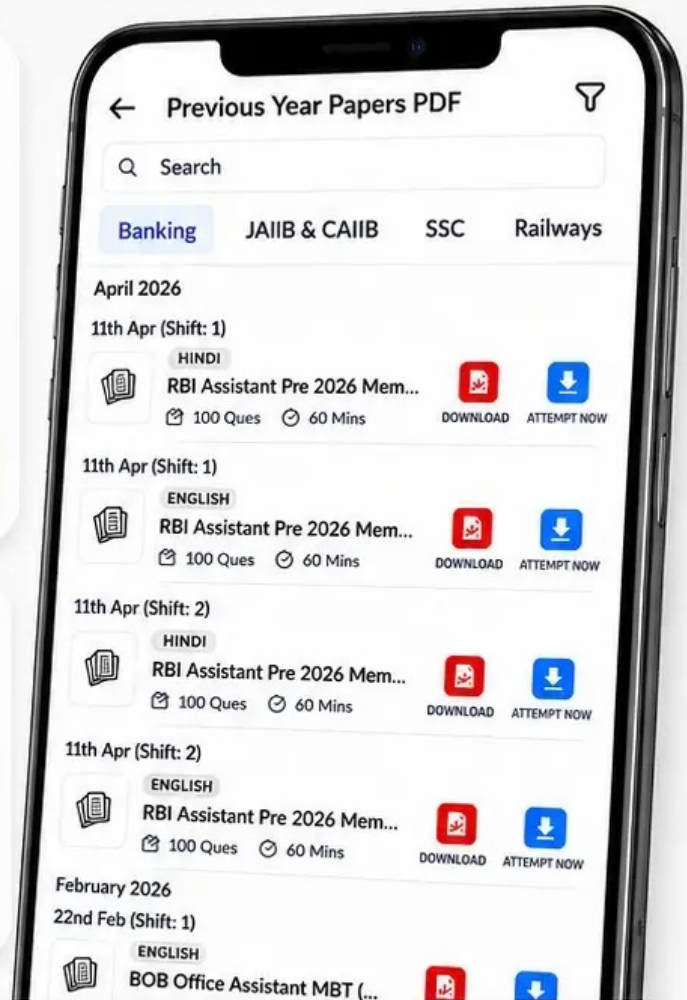
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Q28. An oil of kinematic viscosity 0.5 stoke is flowing through a pipe of 5 cm diameter. The flow the pipe becomes critical at velocity of____

- (a) 0.2 m/sec
- (b) 2 m/sec
- (c) 2.5 m/sec
- (d) 4 m/sec

Ans.(b)

Q29. Along a phreatic line in an earth Dam

- (a) the total head is constant but not zero
- (b) the total head is everywhere zero
- (c) the pressure head is everywhere zero
- (d) the pressure head is constant not zero

Ans.(c)

Q30. A phreatic line is defined as the line within dam section below which there are _____ .

- (a) Negative equipotential lines
- (b) Negative hydrostatic pressure
- (c) Positive hydrostatic pressure
- (d) Positive equipotential lines

Ans.(c)

