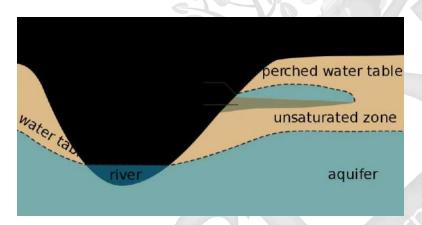
Question: If within a zone of saturation, an impervious deposit below a pervious deposit is found to support a body of saturated material, then this body of saturated material is known as

A : Plowing well B : Aquiclude

C : Artesian aquifer D : Perched aquifer



Question: _____ is an example of a non-rigid dam.

A: Arch dam

B: Timber dam

C: Steel dam

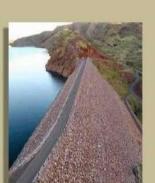
D: Rockfill dam

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Rigid Dams & Non-Rigid Dams





Question: For the purpose of measuring the stopping sight distance, IRC had suggested the height of eye level of driver and the height of the object above the road surface as

A: 1.5 m and 0.15 m B: 1.2 m and 0.12 m C: 1.2 m and 0.15 m D: 1.5 m and 0.12 m

Question: The road length of National Highway by Third Road Plan Formulae, in a cretain district in india having its area as 13,400 sq.m will be

A: 134 km B: 268 km C: 402 km D: 1340 km

Question: As per the modified classification of road system by the Third Road Development Plan, 1981-2001, the roads in the country under 'Primary System' of road network consist of

A: Expressways and National Highways

B: State Highways (SH) and Major District Roads

(MDR)

C: Other District Roads (ODR) and Village Roads

(VR)

D: All of the above

Question: As per IS 10500, acceptable limit for chlorides in mg/l in drinking water is

A: 100 mg/l B: 250 mg/l

C: 500 mg/l

D: 1500 mg/l

Question: In the activated sludge process, sludge volume index is used to decide

A: Quality of raw sewage

B: Quality of final effulent

C: Recirculation ratio of sludge

D: Rate of aeration

Question: An appurtenance used to connect high level branch sewer to low level branch sewer is

A: Mahhole

B: Drop manhole

C: Inverted siphon

D : Catch basin

Question: The maximum tolerance in overall length of a 20 in and 30 m metric chain shuld be respectively



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A: ±2 mm, ±8 mm

B: ±3 mm, ±5 mm

C: ±5 mm, ±8 mm

D: ±8 mm, ±5 mm

Question: The lines joining points of equal dip are called

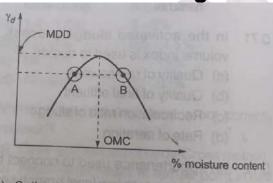
A: Aclinic lines

B: Isogenic lines

C: Agonic lines

D: Isoclinic lines

Question: In a typical compaction curve as indicated in the diagram, points 'A' and 'B' have dry densities. Choose the moat appropriate statement from the following:



A: Soil at 'A' will have more swelling potential and less shrinking upon moisture-variation, compared to 'B'.

B: Soil at 'A' will have same swelling and shrinking potential as soil at 'B'.

C: Soil at 'A' will have loss swelling potential and higher shrinking potential compared with soil at 'B'.

D: The swelling-shrinking potential for soil at 'A' and 'B' cannot be predicted with the given date.

Question: Select the appropirate alternative from the following:

Soil deposit is called as 'over-consolidated', if where P_o is the present effective overburden pressure and P_c is preconsolidation pressure.

A: $P_o > P_c$ B: $P_o \le P_c$ C: $P_o = P_c$ D: $P_o < P_c$

Question: A wall 6 m high has a smooth vertical back and retained sand as a backfill which is submerged. The sand has γ_{sat} = 20 kN/m³ and ϕ = 30_o. The total active earth pressure is

A: 90 kN/m² B: 60 kN/m²

C: 120 kN/m²

D: None of the above

Q. Least count of a levelling staff is:

- A. 1 cm
- B. 5 mm
- C. 1 mm
- D. None of the above

Q. What will be the curvature correction for staff reading, in levelling for a distance of 1000 m?

A. 0.0673 m

B. 0.0785 m UUI UUG GHANNEL

C. 78.50 m

- D. 6.73 m
- Q. Spire test is carried out for the permanent adjustment of:
 - A. Dumpy level
 - B. Auto level
 - C. Tilting level
 - D. None of these
- Q.What is the food to micro-organism ratio in an aeration tank having following data
 - 1. Flow=1 MLD, MLSS= 2000 mg/L
 - 2. Influent BOD₅= 200 mg/L
 - 3. Volume of aeration tank= 500 m³
 - A. 0.20
 - B. 5.00
 - C. 0.80
 - D. 1.25
- Q. Select the correct sequence of different phases of biomass curve:
- A: Lag phase → Log growth phase → stationery phase → endogenous phase
- **B** : Lag phase \rightarrow endogenous phase \rightarrow stationery phase \rightarrow Log growth phase
- C : Endogenous phase \rightarrow Lag phase \rightarrow stationery phase \rightarrow Log growth phase
- D : Log growth phase \rightarrow Lag phase \rightarrow endogenous phase \rightarrow stationery phase

EVEREXAM

Q.Which one of the following expresses the degree of disturbance of undisturbed clay sample due to remolding?

A: Thixotropy
B: Dilatancy
C: Sensitivity
D: Plasticity

Q.Given the coefficient of curvature = 1.4, D_{30} = 3 mm, D_{10} =0.6 mm. Based on this information of praticle size distribution for use as sub grade, this soil is classified as

A: Uniformly-graded sand

B: Well-graded sand

C: Very find sand

D: Poorly-graded sand

Q.From a flownet which of the following information can be obtained?

- 1. Rate of flow
- 2. Pore water pressure
- 3. Exit gradient
- 4. Permeability

Select the correct answer using the codes given below:

A: 1, 2, 3 and 4 B: 1, 2 and 3

C: 2, 3 and 4 only D: 1 only

EVEREXAM

Q. Given that for a soil deposit, K_o = earth pressure coefficient at rest; K_p = pressure coefficient; μ = Poisson's ratir. The value of $(1-\mu)\mu$ is given by

A : KaKp B : KoKa

C: KpKa

D: 1Ko

Q. The minimum bearing capacity of a soil under a given footing occurs when the groundwater table at the location is at

A: The base of the footing

B: The ground level

C: Depth equal to one-half the width of the footing

D: A depth equal to the width of the footing

Q. In Terzaghi's bearing capacity analysis, the soil wedge immediately below the footing remains in state of

A: Plastic equilibrium

B: Radial shear

C: Elastic equilibrium

D: Linear shear

Q. The maximum number of vehicles beyond which the rotary may not function effectively is

A: 500 Vehicles per hour

B: 500 Vehicles per day

C: 5000 vehicles per hour

D: 5000 Vehicles per day

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