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UPPSC AE

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Q:) The maximum efficiency of BOD removal is achieved in:

A : Aerated lagoons

B : Trickling filters

C : Digestion tank

D : Oxidation ditch

Q:) Bulking of sludge can be controlled by:

A : Denitrification

B : Aeration

C : Coagulation

D : Chlorination

Q:) An underground passage used by pedestrians, vehicular traffic etc is known as:

A : Sub-way

B : Service road

C : Fly over

D : Sidewalk

Q:) First operation during the detailed survey of a hill road is:

A : Hydrological and soil survey

B : Longitudinal survey and cross sectioning

C : Adjustment of alignment

D : Fixation of bench marks

Q:) The method of levelling in which the heights of mountains are found by observing the temperature at which water boils is known as:

A : hypsometry

B : barometric levelling

C : reciprocal levelling

D : check levelling

Q:) The length of a line measured with a 20 m chain was found to be 634.4 m. If the chain was 5 cm too long throughout the measurement, then the true length of the line is:

A : 632.420 m

B : 635.986 m

C : 634.420 m

D : 634.425 m

Q:) The highest value of coefficient of refraction occurs during:

A : Early morning

B : Evening

C : At noon

D : Afternoon

Q:) Fill the gap

Sea water contains _____ of oxygen contained in fresh water stream:

A : 0.6

B : 0.7

C : 0.75

D : 0.8

Q:) The conjunctive use of water in a basin means:

A : Combined use of water for irrigation and hydrogen generation

B : Use of water by farmers cooperatives

C : Use of water for irrigating both Rabi and Khari crops

D : Combined use of surface and ground water resources

Q:) Self cleansing velocity is:

A : Velocity at dry weather flow

B : Velocity of water at flushing

C : Velocity at which no accumulation remains in the drain

D : Velocity of water in a pressure filter

Q:) Which of the following is a secondary pollutant:

A : CO₂

B : CO

C : O₃

D : SO₂

Q:) A modern land fill is required to:

A : Have a leachate collection system

B : Have a water proof clay or plastic linear at bottom

C : Surrounded by ground water monitoring well

D : All of the above

Q:) Seepage endangers the stability of earth dam built on pervious soil foundation because of piping, which depends upon:

A : Value of exit gradient

B : Height of dam

C : Quantity of seepage flow

D : Total storage capacity of resources

Q:) Activated carbon is used for:

A : Disinfection

B : Removing hardness

C : Removing odor

D : Removing corrosiveness

Q:) The treatment of water with bleaching powder is known as:

A : PR chlorination

B : Super chlorination

C : DE chlorination

D : Hypo chlorination

Q:) The self-cleansing velocity for all sewer in India is usually:

A : 1.0 to 1.2 m/sec

B : 1.5 to 2.0 m/sec

C : 3.0 to 3.5 m/sec

D : None of the above

Q:) Which of the following sewage treatment method has inherent problem of odor, ponding and fly nuisance?

A : UASB system

B : Activated sludge process

C : Trickling filter

D : Stabilization ponds

Q:) Which statement is not correct with reference to sewerage system of India?

A : Self cleansing velocity is 1.0 to 1.2 m/s

B : Circular system is most suitable for separate sewerage system

C : Velocity of flow depends on the length of the sewer

D : None of the above

Q:) Which of the following type of valve allows water to flow in one direction but prevents in reverse direction?

A : Sluice valve

B : Air relief valve

C : Reflux valve

D : None of the above

Q:) Which statement is correct with reference to "Grid Iron" water distribution system?

A : Suitable for well planned towns and cities

B : Requires less number of sluice valves

C : Cost of construction is low

D : All of the above

Q:) The radial splits which are wider on the outside of the log and narrower towards the pith are known as:

A : Heart shakes

B : Cup shakes

C : Star shakes

D : Rindgalls

Q:) As compared to ordinary Portland Cement, high alumina cement has:

A : Higher initial setting time but lower final setting time.

B : Lower initial setting time but higher final setting time.

C : Higher initial and final setting time

D : Lower initial and final setting time

Q:) The size of the aggregate accepted as suitable for R.C.C. construction work is about:

A : 5 mm to 20 mm

B : 3 mm to 5 mm

C : 1.0 mm to 3 mm

D : 0.5 mm to 1.0 mm

Q:) Shrinkage in cement concrete may be reduced by:

A : Proper curing

B : Adding minimum water

C : Adding more aggregate

D : Adding mild steel bar

Q:) For pointing the masonry is raked out to a depth of about:

A : 15 to 20 mm

B : 3 to 5 mm

C : 5 to 10 mm

D : 20 to 40 mm

Q:) Consider the following statements:

Among the more common varieties of timber namely sal, mango and deodar,

- 1. Sal is strongest**
- 2. Mango is least durable**
- 3. Deodar is lightest**

Of the statements:

A : 1 and 2 are correct

B : 1 and 3 are correct

C : 2 and 3 are correct

D : 1, 2 and 3 are correct

Q:) As per IRC:37-2001, the minimum thickness of granular base course to be provided on a National or State Highway is:

A : 150 mm

B : 200 mm

C : 250 mm

D : 300 mm

Q:) The ruling design speed for National Highways in mountainous terrain is:

A : 70 Km/hr

B : 60 Km/hr

C : 50 Km/hr

D : 40 Km/hr

Q:) The tie bars in a concrete pavement are provided in:

A : Contraction joints

B : Expansion joints

C : Longitudinal joints

D : Construction joints

Q:) This is generally used for pre-mixing tar macadam in base course:

A : RT-1

B : RT-2

C : RT-3

D : RT-4

Q:) When speed of traffic flow becomes zero, then:

A : Traffic density and traffic volume both attain maximum value

B : Traffic density attain maximum value but traffic volume becomes zero

C : Traffic density and traffic volume both becomes zero

D : Traffic density becomes zero but traffic volume attains maximum value

Q:) The 'fix' of a plane table with three known points is good if the instrument station lies:

A : In the great triangle

B : Outside the great triangle

C : Outside the great triangle but within the great circle

D : On the circumference of the circumscribing circle

Q:) Concrete pavement is provided if daily traffic per lane exceeds:

A : 750 tonnes

B : 2000 tonnes

C : 1250 tonnes

D : 1000 tonnes

Q:) The height of mandatory traffic sign discs above the ground level should be:

A : 2.5 m

B : 2.8 m

C : 3.5 m

D : 3.8 m

Q:) The yield of well depends upon:

A : Area of aquifer opening into the well

B : Actual flow velocity

C : Permeability of soil

D : All of the above

Q:) At the foot of a spillway, the jump rating curve is below the tail water curve at low flows and above it at high flows. The suitable type of energy dissipater for this situation is:

A : A sky-jump bucket

B : A horizontal apron

C : A sloping apron

D : A stilling pool

Q:) What is the detention time for the domestic septic tank?

A : 2 hours

B : 12 hours

C : 24 hours

D : 28 hours

Q:) If turbidity removal is the only objective of a water treatment plant, it should have following units in a sequence:

A : Aeration, coagulation, flocculation and chlorination

B : Rapid sand filter and chlorination

C : Zeolite treatment and chlorination

D : Rapid mixing, flocculator, setting tank and filter

Q:) The cross section of sewer which is suitable for both combined and separate system is:

A : Circular sewer

B : Egg-shaped sewer

C : Horse-shape type sewer

D : Semi-elliptical sewer

Q:) In the oxidation ditch, the excess sludge is taken to:

A : Anaerobic digester

B : Aerobic digester

C : Drying beds

D : Incinerator

Q:) Oven Dry mass of a pat of clay is 10.8 gm and mass of mercury displaced on immersion is 84.2 gm. If the specific gravity of solids is 2.72 and the density of the mercury is 13.6 g/cm^3 , the shrinkage limit of the soil will be nearly

A : 12 %

B : 15 %

C : 18 %

D : 21%

Q:) In a three-layered soil system, the thicknesses of the top and bottom layers each are half the thickness of the middle layer. The coefficients of permeability of the top and bottom layers each are double the coefficient of permeability k of the middle layer. When horizontal flow occurs, the equivalent coefficient of permeability of the system will be

A : 1.5 k

B : 3.0 k

C : 4.5 k

D : 6.0 k

Q:) Consider the following statements:

- 1. Quantity of seepage in each flow channel of a flow-net is independent if the size is fixed**
- 2. Drop in head between adjacent equipotential lines in a flow-net is dependent on upstream head**
- 3. With increase in the length of a flow path, the corresponding exit gradient will decrease.**

Which of these statements are correct?

A : 1,2 and 3

B : 1 and 2 only

C : 1 and 3 only

D : 2 and 3 only

Q:) Which one of the following is not the main cause for soil salinity and sodicity ?

A : Irrigation Mismanagement

B : poor land leveling

C : use of heavy machinery, resulting in no soil compaction

D : Leaching without adequate drainage

Q:) Consider the following data for a drain

$$L = 50 \text{ m}$$

$$a = 10 \text{ m,}$$

$$b = 10.3 \text{ m and}$$

$$K = 1 \times 10^{-5} \text{ m/s}$$

If the drains carry 1% of average annual rainfall in 24 hrs, the average annual rainfall for which this system has been designed will be

A : 78 cm

B : 84 cm

C : 90 cm

D : 96 cm

Q:) Consider the following statement regarding design of channel by lacey and kennedy:

- 1. The theoretical concept of silt transportation is the same in both the theories.**
- 2. Lacey improved upon kennedy's formula.**
- 3. There are no defects in either the theories of lacey or of kennedy.**

Which of the above statements are correct?

A : 1 and 2 only

B : 1 and 3 only

C : 2 and 3 only

D : 1, and 2 and 3

Q:) In an old map, a line AB was drawn to a magnetic bearing of $5^{\circ} 30'$ the magnetic declination at the time being 1° East. If the present magnetic declination is $8^{\circ} 30'$ East, the line should be set to a magnetic bearing of

A : 358°

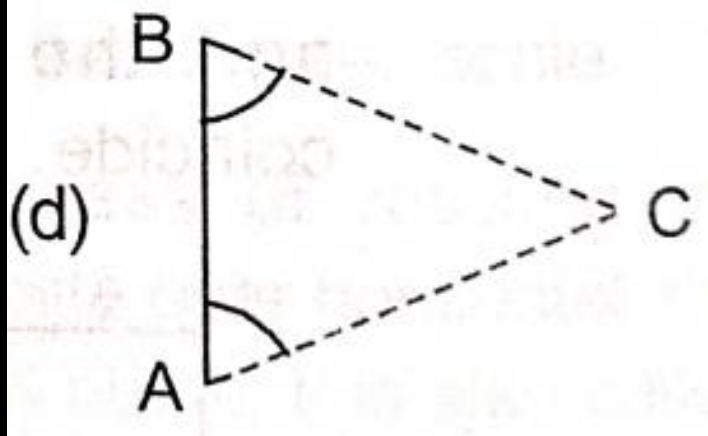
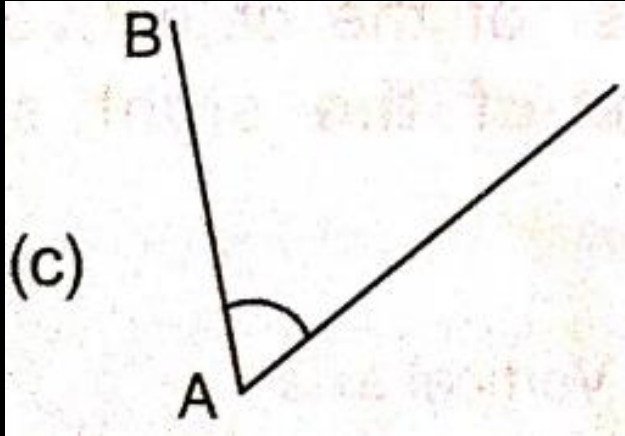
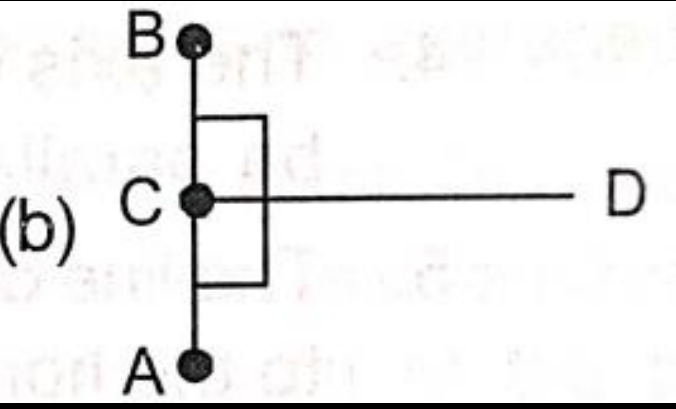
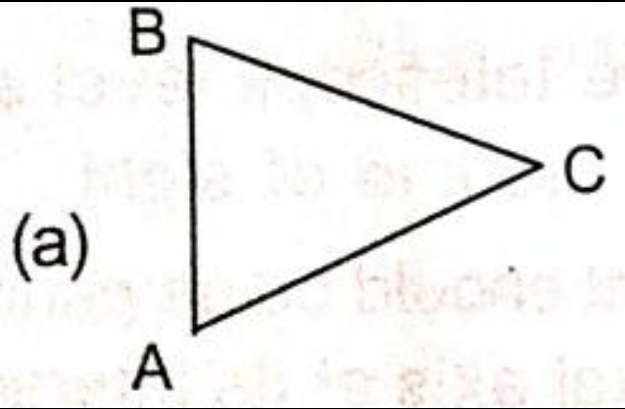
B : 2°

C : $6^{\circ} 30'$

D : 257°

Q:) In an old map, a line AB was drawn to a magnetic bearing of $5^{\circ}30'$, the magnetic declination at the time being 10 East. If the present magnetic declination is $8^{\circ}30'$ East, the line should be set to a

Q:) Which one of the following figures indicates the principle of traversing ?



Q:) In a levelling survey, the summation of all backsights and the summation of all foresights are 7.475 m and 7.395 m, respectively.. The reduced level of the initial benchmark is 100.000 m The reduced level of the last point where the staff is held will be

A : 100.000 m

B : 100.080 m

C : 107.395 m

D : 107.475 m



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