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Q :) The following items are considered for the selection of site for an airport. Mark the incorrect option.

A : Class of airport

B : Visibility at airport site

C : Altitude

D : Runway orientation

Q :)The order in which a road is built as from bottom to top

A : Subsoil, base, subgrade, subbase

B : Base, subsoil, subgrade, subbase

C : Subbase, base, subgrade, subsoil

D : Subsoil, subgrade, subbase, base

Q :) A vehicle moving at 50 km/h speed was stopped by applying brakes and the length of the skid marks was 18 m. If the average skid resistance of the pavement is 0.75, the brake efficiency (in %) of the test vehicle will be

A : 71.12%

B : 72.83%

C : 73.48%

D : 74.62%

Q :) For a sleeper density of $(n + 5)$ the number of sleepers required for constructing a broad gauge (B.G.) railway track of length 650 m is given by

A : 1000

B : 900

C : 800

D : 700

Q :) The tyre of the camber which is best suited for cement concrete pavement is

A : Straight line

B : Parabolic

C : Elliptical

D : Composite

Q :) Which one is NOT a road pattern?

A : Block pattern

B : Star and block pattern

C : Hexagonal pattern

D : Diamond pattern

Q :) If the methyl alkalinity of water equals or exceeds total hardness, all of the hardness is

A : Non-carbonate hardness

B : Carbonate hardness

C : Pseudo hardness

D : Negative non-carbonate hardness

Q :) When waste water is disposed of into a running stream, four zones are formed. In which one of the following zones, will the minimum level of dissolved oxygen be found?

A : Zone of degradation

B : Zone of active decomposition

C : Zone of recovery

D : Zone of clear water

Q :) Hairs of human nose can remove all the particles of size greater than

A : 1 micron

B : 10 micron

C : 100 micron

D : None of these

Q :) Match List-I with List-II and select the correct answer using the codes given below the lists:

List-I (Treatment unit)	List-II (Detention time)
A. Grit chamber	1. Six hours
B. Primary sedimentation	2. Two minutes
C. Activated sludge	3. Two hours
D. Sludge digestion	4. Twenty days

Codes:

A : 3, 1, 4, 2

B : 2, 3, 1, 4

C : 2, 1, 3, 4

D : 1, 2, 3, 4

Q :) The best system for distribution of water in a randomly planned city is

A : Dead end systems

B : Grit iron system

C : Ring system

D : Radial system

Q :)Which one of the following type of transition curves is mostly used in Indian Railways?

A : Cubic parabola

B : Lemniscate

C : Cubic spiral

D : Euler's spiral

Q :) The Govt. of Indian, appointed the national transport policy committee in the year

A : 1978

B : 1973

C : 1956

D : 1943

Q :) Flexible pavement distribute the wheel load

A : Directly to subgrade

B : Through a set of layers to the subgrade

C : Through structural action

D : None of the above

Q :) The total correction for elevation temperature and gradient for a runway, should NOT be more than

A : 35%

B : 25%

C : 15%

D : 10%

Q :) The population of a town in three consecutive year are 5000, 7000 and 8400, respectively. The population of the town in the fourth consecutive year according to the geometric increase method is

A : 9500

B : 9800

C : 10100

D : 10920

Q :) pH = 4 when compared to pH = 7, will be more acidic by

A : 3 times

B : 300 times

C : 1000 times

D : None of these

Q :) One litre of sewage when allowed to settle for 30 minutes gives a sludge volume of 30 cm^3 . If the dry weight of this sludge is 3.0 gms, then the sludge volume index will be

A : 20

B : 30

C : 10

D : 40

Q :) High COD to BOD ratio of an organic pollutant represents

A : High biodegradability of the pollutant

B : Low biodegradability of the pollutant

C : Presence of free oxygen for aerobic decomposition

D : Presence of toxic material in the pollutant

Q :) Which of the following treatment process are necessary for the removing suspended solid from water?

- | | |
|------------------------|-------------------------|
| 1. Coagulation | 2. Sedimentation |
| 3. Flocculation | 4. Disinfection |

Select the correct answer the correct answer using the codes given below:

A : 1 and 2

B : 1, 2 and 3

C : 2 and 4

D : 1 and 4

Q :) If the coliform bacteria is present in a sample of water, then the coliform test to be conducted is

- i. Presumptive coliform test**
- ii. Confirmed coliform test**
- iii. Completed coliform test**

The correct answer is

A : Only (i)

B : Both (i) and (ii)

C : Both (i) and (iii)

D : All (i), (ii) and (iii)

Q :) The relative stability of a sewage sample whose D.O. equals the total oxygen required to satisfy its BOD is

A : Zero

B : 1%

C : 100%

D : Infinity

Q :) Which of the following parameters are employed in the design of trickling filter?

- 1. Hydraulic loading rate**
- 2. Organic loading rate**
- 3. Detention time**
- 4. Weir loading rate**

A : 1, 2, 3 and 4

B : 1 and 2 only

C : 1 and 3 only

D : 3 and 4 only

Q :) The slope of a 1.0m diameter concrete sewer laid at a slope of 1 in 1000 develops a velocity of 1 m/second, when flowing full. When it is flowing half full, the velocity of flow through the sewer will be

A : 0.5 m/sec

B : 1.0 m/sec

C : $\sqrt{2.0}$ m/sec

D : 2.0 m/sec

Q :) Self purification of running streams may be due to

A : Sedimentation, oxidation and coagulation

B : Dilution, sedimentation and oxidation

C : Dilution, sedimentation and coagulation

D : Dilution, oxidation and coagulation

Q :) If the height of a tower is 50m, flying height of the aircraft above the base is 5000m and the image of the top of the tower is 20 cm, from the principal point, what will be the height displacement?

A : 2 cm

B : 1 cm

C : 0.2 cm

D : 0.2 m

Q :) The perpendicular offset from a tangent to the junction of transition curve and circular curve is equal to

(Where L = length of transition curve, R = Radius of circular curve)

A : $\frac{L}{6R}$

B : $\frac{L}{24R}$

C : $\frac{L^2}{6R}$

D : $\frac{L^2}{24R}$

Q :) In a survey, A and B are two points. Already located with respect to A and B, point C is located by taking two reading and then line CD is measured. The D point is a point on AB. The line CD is known as

A : Base line

B : Check line

C : Tie line

D : Additional line

Q :) A tunnel should NOT be constructed along

A : Strike direction

B : Dip direction

C : Oblique to the bed altitude

D : Both along dip and strike direction

Q :) Refraction error is least in case of

A : Stadia tacheometry

B : Tangential tacheometry

C : Subtense bar tacheometry

D : Omni meters

Q :) Match List-I and List-II, and select the correct answer using the codes in given below list.

List-I	List-II
1. Preliminary estimate	1. Probable variation for quantity rate and amount for each items.
2. Revised estimate	2. Material deviation of a structural nature
3. Supplementary estimate	3. Complete estimate
4. Quantity estimate	4. Approximate cost of the project

Codes:

A : 4, 1, 2, 3

B : 4, 2, 1, 3

C : 3, 1, 2, 4

D : 3, 2, 1, 4

Q :) The total number of grades of ordinary concrete stipulated in IS : 456-2000 are

A : 10

B : 8

C : 3

D : 6

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