

Q : Cement used for railway sleepers is designated as

A : 40-S

B : 53-S

C : 46-S

D : 48-S

Q : For testing compressive strength of hydraulic cement other than masonry cement as per IS 4031 - Part 6, the size of cube used is

A : 150 mm

B : 100 mm

C : 70.6 mm

D : 50 mm

Q : A queen closer is

A : Full brick

B : Longitudinally 1/2 brick

C : 3/4 brick

D : 1/2 brick

Q : The artificial seasoning method that causes timber to become brittle and easy to break is

A : Boiling

B : Chemical seasoning

C : Electrical seasoning

D : Kiln seasoning

Q : Inadequate compaction during concrete casting results in

A : Honey combing

B : Bleeding

C : Segregation

D : Bleeding and segregation

Q : A sudden change in the flow velocity or pressure created in water pipe line due to sudden closure of valve is called

A : Boiling

B : Implosion

C : Vibration

D : Water hammer

Q : The minimum diameter for public sewer in hilly areas where steep slopes are prevalent is

A : 300

B : 150

C : 100

D : 50

Q : Treatment required for raw water containing only carbon dioxide and odorous gases is

A : Plain sedimentation stop the flow to building

B : Chlorination only

C : Aeration followed by disinfection

D : Softening and chlorination

Q : In connection line from water main to building, goose-neck is provided to

A : quickly open or stop the flow to building

B : avoid stresses and strains on the joint due to

temperature variations and vibrations

C : detect leakages in pipe line

D : to provide additional considerations in future

Q : The sluice valves used for dewatering the pipe line are called

A : Scour valve

B : Safety valve

C : Sectionalizing valve

D : Discharge control valve

Q : The collapsible soil is associated with

A : Dune sands

B : Laterite

C : soils

D : Loess

Q : Disposal of refuse by Bangalore method involves

A : Aerobic method of composting

B : Anaerobic method of composting

C : Pulverization

D : Pyrolysis

Q : Degree of saturation (s) of a soil mass is expressed in terms of volume of water (V_w) and volume of voids (V_v) as

A : $S = \frac{(V_v V_w)}{100}$

B : $S = 100 \left(\frac{V_w}{V_v} \right)$

C : $S = 100 \left(\frac{V_v}{V_w} \right)$

D : $S = 100(V_v - V_w)$

Q : If two soils S1 and S2 tested in the laboratory are having liquid limits 38% and 60% and plastic limits 18% and 20% respectively. If natural moisture content for S1 and S2 is 40% and 50% respectively, which soil is a better foundation material when remoulded.

A : S1

B : S2

C : S1 and S2

D : Neither S1 nor S2

Q : The latitude and departure of a line AB are + 78 m and - 45.1 m respectively. The whole circle bearing of the line AB is

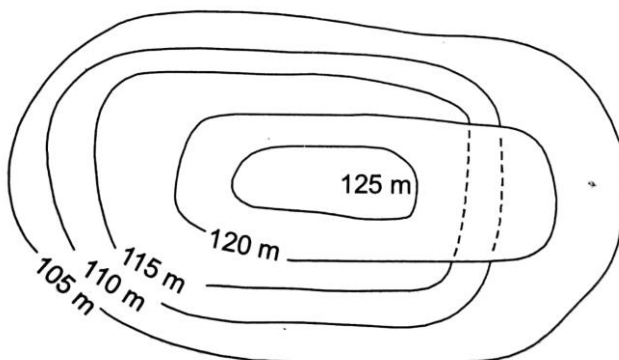
A : 30°

B : 150°

C : 210°

D : 330°

Q : The contours given below represent



A : Depression

B : Summit

C : Saddle

D : Over hanging cliff

Q : Remote sensing work where system has no energy source of its own but depends on external source of energy is called

- A : Active remote sensing**
- B : Passive remote sensing**
- C : SLAR**
- D : LIDAR**

Q : Widening at curves provided to compensate the extra width occupied by a vehicle on the curve due to tracking of the rear wheels is called

- A : Mechanical widening**
- B : Psychological widening**
- C : Super widening**
- D : Extra widening**

Q : Value of camber provided for straight sections of roads in areas of high intensity of rainfall is _____ than/to that provided for the areas of low intensity of rainfall.

- A : Steeper**
- B : Midler**
- C : Equal**
- D : None of the given answers**

Q : As per IRC code for flexible pavements, designed life for National Highways and State Highways should be

- A : 20 years**
- B : 15 years**
- C : 10-15 years**
- D : < 10 years**

Q : Map cracking is the common type of failure in

- A : Rigid pavements**
- B : Cement concrete pavements**
- C : Gravel roads**
- D : Bituminous surfacing**

Q : For no tension to develop in the gravity dam the resultant of all the external forces should always lie

- A : At the center of the base**
- B : Within the middle third portion of the base**
- C : Within the d/s third portion**
- D : With the u/s third portion**

Q : Blue baby disease may be caused in infants due to drinking water containing higher concentrations of

- A : Nitrites**
- B : Nitrates**
- C : Lead**
- D : Arsenic**

Q : Sedimentation is the process related to

- A : Floating material in rivers**
- B : Bed material carried by flowing water**
- C : Cutting land for channeling**
- D : Seepage into Embankments**

Q : The ratio of rate of change of discharge of a canal outlet to the rate of the change of the discharge of the distributing channel is known as

- A : Proportionality**
- B : Flexible**
- C : Sensitivity**
- D : Drowning ratio**