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**DURATION**  
400+ HOURS

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**Q : 1) At the caps of columns in simple storey buildings, the horizontal deflection due to lateral force should NOT ordinarily exceed \_\_\_\_\_ of the actual length 'l' of the column.**

**A :  $\frac{1}{260}$**

**B :  $\frac{1}{325}$**

**C :  $\frac{1}{250}$**

**D :  $\frac{1}{360}$**

**Q : 2) The unit soil pressure or safe bearing pressure is also known as:**

**A : Net safe settlement pressure**

**B : gross safe bearing pressure**

**C : Net ultimate bearing pressure**

**D : Net allowable bearing pressure**

**Q : 3) According to IS : 456 : 2000, a beam shall deemed to be a deep beam when the ratio of effective span to overall depth is less than \_\_\_\_\_ for a continuous beam.**

**A : 2.5**

**B : 1.0**

**C : 2.0**

**D : 0.5**

**Q : 4) Which of the following is usually provided with an uncontrolled spillway and an uncontrolled orifice type sluiceway?**

**A : Regulated reservoir**

**B : Detention basin**

**C : Storage reservoir**

**D : Retarding basin**

**Q : 5) A good method of maintaining a satisfactory state of wetness in a body of concrete to promote continuous hydration when original water cement ratio used is NOT less than 0.5 is know as:**

**A : High-pressure steam curing**

**B : Application of heat**

**C : Water curing**

**D : Membrane curing**

**Q : 6) \_\_\_\_\_ involves adding a small percentage of finely ground, fully hydrated cement to fresh concrete mix.**

**A : Revibration**

**B : Use of admixtures**

**C : Seeding**

**D : Sulphur impregnation**

**Q : 7) When the frequency of the exciting force is equal to one of the natural frequencies of the system, the amplitudes of motion become excessively large. The condition is known as :**

**A : Free vibration**

**B : Damping**

**C : Resonance**

**D : Forced vibration**

**Q : 8) A dam fails by \_\_\_\_\_ when horizontal forces are greater as compared with the vertical forces to cause the resultant of all forces acting on the dam to fall outside the body of the dam.**

**A : Compression**

**B : Overturning**

**C : Tension**

**D : Sliding**

**Q : 9) \_\_\_\_\_ is a special rate of boning rod in which the horizontal piece can be moved along a graduated vertical staff. And can be conveniently clamped at any desired height.**

**A : A traveler**

**B : A slope rod**

**C : A sight rail**

**D : A batter board**

**Q : 10) Which of the following is the most efficient method of resisting sulphate attack on concrete?**

**A : Use of high alumina cement**

**B : Use of sulphate resisting cement**

**C : Use of air-entrainment**

**D : Use of Pozzolana**

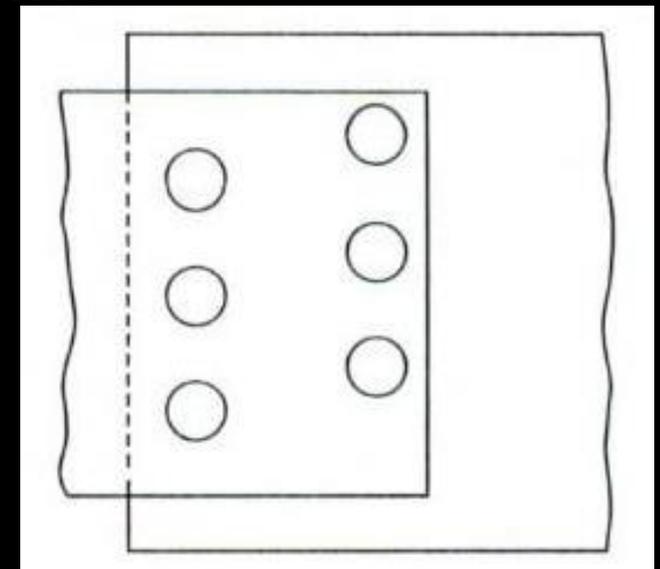
**Q : 11) The given figure shows:**

**A : A zig-zag riveted joint**

**B : A diamond riveted joint**

**C : A diamond riveted joint**

**D : A crisscross riveted joint**



**Q : 12) Pipe corrosion cannot be prevented or retarded by:**

**A : Frequently changing nature of the pipe**

**B : Proper selection of material**

**C : Cathodic protection**

**D : Providing protective linings and coatings**

**Q : 13) What should be the minimum inclined angle to the axis of the member or lacing bars in single or double system?**

**A : 30°**

**B : 40°**

**C : 70°**

**D : 60°**

**Q : 14) In prestressed members requiring very large forces, the tendons preferred are:**

**A : Threads**

**B : Wires**

**C : Strands**

**D : Bars**

**Q : 15) The method which is suitable for determination of soil suction up to 0.8 bar or 80 kN/m<sup>2</sup> or 800 cm of water is:**

**A : The centrifuge method**

**B : The suction plate method**

**C : The pycnometer method**

**D : The tensiometer method**

**Q : 16) Curvature of up to \_\_\_\_\_ are normally adopted for hills or mountain railways.**

**A : 25°**

**B : 30°**

**C : 35°**

**D : 40°**

**Q : 17) The type of machine foundation that consists of a pedestal resting on a footing is known as :**

**A : Framed type machine foundation**

**B : Block type machine foundation**

**C : Box type machine foundation**

**D : Wall type machine foundation**

**Q : 18) Which of the following is NOT an advantage of frilled piers?**

**A : They have higher resistance to lateral loads than piles**

**B : Subsurface investigations required in the case of drilled piers are less than that in piles.**

**C : They can be used even when the soil contains boulders, etc.**

**D : As a single drilled pier can take up the load of a group of piles, it is more convenient.**

**Q : 19) \_\_\_\_\_ are formed by the decomposition of rocks. Removal of bases and silica and accumulation of iron oxide and Aluminium oxide.**

**A : Alluvial soils**

**B : Black cotton soils**

**C : Desert soils**

**D : Lateritic soils**

**Q : 20) “They are elements used to span large distances”**

**“The load is transferred to them through spandrels or hangers to make them uniform”**

**“If they have a funicular shape with reference to the load, then they are under pure compression.”**

**The given statements are true for:**

**A : Beams**

**B : Arches**

**C : Trusses**

**D : Plates**

**Q : 21) A quick reasonably accurate method Of determining the moisture content of fine aggregate is :**

**A : The electrical measurement method**

**B : The displacement method**

**C : They drying method**

**D : The calcium carbide method**

**Q : 22) \_\_\_\_\_ is are being increasingly used internally for cold water service pipes only.**

**A : Lead pipes**

**B : Polythene tubes**

**C : Copper tubing**

**D : GI Pipes**

**Q : 23) Which of the following types of track fittings are fixed with the help of tie and cotters?**

**A : Rail to wooden sleepers**

**B : Rail to rail**

**C : Rail to steel trough sleepers**

**D : Rail to cast iron sleepers**

**Q : 24) What is the representative height of capillary rise for fine sand?**

**A : 0.02 to 0.10 m**

**B : 0.10 to 0.15 m**

**C : 1.0 to 10.0 m**

**D : 0.30 to 1.00 m**

**Q : 25) The process generally provided at the intake point and adopted to remove all the floating matter from surface water is known as:**

**A : Aeration**

**B : Sedimentation with or without coagulants**

**C : Screening**

**D : Filtering**

**Q : 26) “It is one of the most convenient and versatile instruments foe preliminary surveying on the surface or underground”. “It is suitable for forestry. Geological and mining purposes, and for simple contour and tracing work”**

**“Its main part is a magnetic compass with a 5 cm long magnetic needle pivoting on an agate cap.”**

**The given statement are true for:**

**A : Brunton universal pocket transit**

**B : Special compasses**

**C : A convertible transit level**

**D : A mountain compass-transit**

**Q : 27) What should be the effective slenderness ratio of the laced column in order to account for the shear deformation effects?**

**A : 1.20 times the ideal maximum slenderness ratio**

**B : 1.05 times the actual maximum slenderness ratio**

**C : 1.25 times the ideal nominal slenderness ratio**

**D : 1.15 times the actual nominal slenderness ratio**

**Q : 28) Which of the following is a calcareous rock?**

**A : Quartzite**

**B : Laterite**

**C : Gneiss**

**D : Dolomite**

**Q : 29) The ratio of a given volume change, expressed as a percentage of dry volume to the corresponding change in water content is known as:**

**A : Linear ratio**

**B : Volumetric ratio**

**C : Index ratio**

**D : Shrinkage ratio**

**Q : 30) The flow in a pipe is termed as laminar if the Reynolds number is:**

**A : More than 2800**

**B : Less than 2000**

**C : More than 5000**

**D : Between 2000 and 2800**

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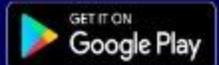
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