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- The leveling adopted to determine the level difference between two points is not possible to set up the level midway between the two points is:
- Profile leveling
  - Reciprocal leveling
  - Differential leveling
  - Check leveling
133. The volume of voids in the total volume of soil is known as:
- porosity
  - void ratio
  - air ratio
  - air content
134. A fundamental equation of soil ratio (e), specific gravity (G), water content (W) and the degree of saturation (S) is:
- $W = \frac{eS}{G}$
  - $W = \frac{e}{G}$
  - $G = \frac{eS}{W}$
  - $S = \frac{eW}{G}$
135. Manometer is a device used for measuring:
- Velocity
  - Pressure
  - Density
  - Discharge
136. Capillary rise is due to:
- surface tension
  - cohesion
  - viscosity
  - vapour pressure
137. Flow of water through a passage under atmospheric pressure is called:
- Pipe flow
  - Underflow
  - Open channel flow
  - Non uniform flow
138. The discharge through a V notch varies:
- proportional to head (H)
  - inversely proportional to angle  $\theta$
  - proportional to  $H^{3/2}$
  - inversely proportional to  $H^{3/2}$
139. The ratio of equivalent length of the column to minimum radius of gyration is called as:
- Bulking factor
  - Factor of safety
  - Poisson's ratio
  - Co-efficient restitution
140. In a 1 = 100 scale model of a harbour, time which corresponds to the prototype tidal period of 12 Hrs will be in Hr:
- 12
  - 1
  - 10
  - 1.2
141. Two Tensile forces, each of magnitude F are acting at a point perpendicular to each other, then their resultant force will be:
- $\sqrt{2}F$
  - Zero
  - $\sqrt{E}$
  - $\sqrt{5}F$
142. The Taylor's correlation between the cutting speed (V) and the tool life (T) is given by:
- $\frac{V^n}{T} = \text{Constant}$
  - $V T^n = \text{Constant}$
  - $\frac{V}{T^n} = \text{Constant}$
  - $V^n T = \text{Constant}$
143. The device which permits the connection and disconnection of shaft is:
- Bearing
  - Connector
  - Clutch
  - Pulley
144. Darcy-Weisbach equation to calculate the head loss due to friction for flow through pipe is applicable when the flow through the pipe is:
- Laminar only
  - Turbulent only
  - Both laminar and turbulent
  - Subcritical flow
145. Notch is a device used for measuring:
- Velocity through small channels
  - rate of flow through pipes
  - rate of flow through a small channels
  - velocity through pipes
146. Which cross-section of a cantilever beam which is loaded with UDL can give economical design:
- Square
  - Circular
  - I-Section
  - Rectangular
147. What torque in Nm is required to give 3 m<sup>3</sup>/s of water, a moment of momentum, so that it has a tangential velocity of 3 m/s at a distance of 1.8 m from the axis of rotation?
- 16200
  - 157
  - 2624
  - 8138
148. The dimension for Angular velocity is:
- T<sup>-1</sup>
  - T<sup>-2</sup>
  - T<sup>-3</sup>
  - T<sup>-4</sup>
149. Which of the following flow conditions does not have any unit?
- Cheney's N
  - Montagu's N
  - Both Cheney's C and Montagu's N
  - None of the above
144. Each term in the Bernoulli equation represents:
- Energy per unit weight
  - Energy per unit mass
  - Energy per unit volume
  - Specific energy
142. Tensile stress of water of oil (specific gravity = 0.8) equivalent to 4.5 m of water is:
- 4.5
  - 5.0
  - 3.6
  - 0.288
143. Typically, a hydroelectric plant will have a following hydroelectric machine:
- Hydraulic Turbine
  - Hydraulic Pump
  - Electric Motor
  - None of the above
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Part - C : GENERAL ENGINEERING (Mechanical)

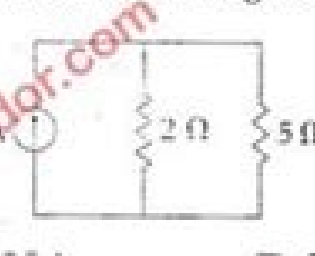
137. The ratio of equivalent length of the column to minimum radius of gyration is called as:
- Bulking factor
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  - Poisson's ratio
  - Co-efficient restitution
138. The hot wire anemometer is used to measure:
- Liquid velocities
  - Pressure in gases
  - Discharge of gases and liquids
  - Gas velocities
139. An engine oil of viscosity  $22.5 \times 10^{-2}$  (Per.s) is flowing through a pipe of radius 1 m. Average velocity of oil through the pipe is 1.2 m/sec. If the velocity profile is parabolic profile then maximum velocity of oil is:
- 2.4 m/sec
  - 1.8 m/sec
  - 1.5 m/sec
  - 3.6 m/sec
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TEST - (iii)

Part - A : GENERAL ENGINEERING (Civil and Structural)

101. The minimum percentage of steel in R.C.C. slab using mild steel reinforcement in given by:
- 0.35%
  - 0.12%
  - 0.15%
  - 0.30%
102. To obtain very high strength concrete, it is necessary to use very fine grained:
- Volcanic scoria
  - Granite
  - Magnetite
  - Barite
103. Which of the following type of lime is used for underwater constructions?
- Fat lime
  - Quick lime
  - Slaked lime
  - Hydraulic lime
104. Which one of the following has least bearing Capacity?
- Loose gravel
  - Hard rocks
  - Soft rocks
  - Compact gravel
105. Factor of safety is the ratio of:
- bearing stress and working stress
  - yield stress and working stress
  - tensile stress and working stress
  - compressive stress and working stress
106. For lined canals, the freeboard is measured from the:
- full supply level to the top of the lining
  - full supply level to the top of the bank
  - top of the bank to the top of the lining
  - full supply level to the top of the dowel
107. The property of a material by which it gets permanent deformation under a load which is not recovered after removal of load is called:
- elasticity
  - brittleness
  - ductility
  - plasticity
108. The concrete having a slump of 6.5 cm, is said to be:
- plastic
  - dry
  - earth moist
  - semi-plastic
109. Capillary rise is a phenomenon that is attributed to the following property of fluid:
- vapour pressure
  - viscosity
  - density
  - surface tension
110. The value of  $C_v$  for sharp edged orifice is generally:
- 0.98
  - 0.95
  - 0.96
  - 0.97
111. As a cheap alternative, the fineness of cement is tested by using:
- IS 100  $\mu$  sieve where at least 90% (by weight) should be retained
  - IS 90  $\mu$  sieve where at least 90% (by weight) should pass
  - IS 90  $\mu$  sieve where at least 95% (by weight) should pass
  - IS 100  $\mu$  sieve where at least 90% (by weight) should pass
112. Strain energy due to sudden axial load is given by:
- $\sigma$ : resultant stress  
 P: axial load  
 $\Delta$ : deformation  
 $\epsilon$ : strain  
 E: modulus of elasticity
- $\frac{1}{2} P\Delta$
  - $\sigma \epsilon$
  - $P\Delta$
  - $\frac{\sigma^2}{2E}$

Part - B : GENERAL ENGINEERING (Electrical)

140. Which of the following condition is NOT mandatory for alternators working in parallel ?  
 (A) The alternators must have the same phase sequence.  
 (B) The terminal voltage of each machine must be the same.  
 ✓ (C) The machines must have equal kVA ratings.  
 (D) The alternators must operate at the same frequency.
141. Find the current through 5 Ω resistor:
- 
- (A) 3.5 A (B) 7.15 A  
 (C) 5 A ✓ (D) 2.85 A
142. An isolator is used in series with Air blast Circuit Breaker employed at UHV lines because:  
 (A) CB life is enhanced with the use of isolator.  
 (B) current to be interrupted will be large.  
 ✓ (C) gap between CB contacts is small so an isolator is used to switch off voltage.  
 (D) gap between CB poles is small.
143. Diversity factor has direct effect on the:  
 (A) Operating cost of unit  
 ✓ (B) Fixed cost of the unit generated  
 (C) Variable cost of the unit generated  
 (D) Both variable and fixed cost of unit generated
144. Regulation of an alternator supplying resistive or inductive load is:  
 (A) infinity ✓ (B) always negative  
 (C) always positive (D) zero
145. The highest transmission a.c. voltage in India is:  
 (A) 1750 kV (B) 132 kV  
 ✓ (C) 220 kV (D) 400 kV

146. Point out the WRONG statement.  
 The magnetising force at the centre of a circular coil varies:  
 (A) inversely as its radius  
 (B) directly as the number of its turns  
 (C) directly as the current  
 ✓ (D) directly as its radius
147. The rotor slots, in an induction motor are usually not quite parallel to the shaft because it:  
 (A) improves the power factor.  
 (B) improves the efficiency.  
 (C) helps the rotor teeth to remain under the stator teeth.  
 ✓ (D) helps in reducing the tendency of the rotor teeth to remain under the stator teeth
148. If a  $10^{-6}$  F capacitor is connected to a voltage source with  $v(t) = 50 \sin 2000 t$  V, then the current through the capacitor is \_\_\_\_\_ A.  
 (A)  $10^6 \cos 2000 t$  (B)  $5 \times 10^{-4} \cos 2000 t$   
 ✓ (C)  $\cos 2000 t$  (D)  $500 \cos 2000 t$
149. In a series resonance circuit, the impedance at half power frequencies is:  
 (A)  $2R$  (B)  $\frac{R}{\sqrt{2}}$  ✓ (C)  $\sqrt{2}R$  (D)  $\frac{R}{2}$
150. A  $10 \Omega$  resistive load is to be impedance matched by a transformer to a source with  $6250 \Omega$  of internal resistance. The ratio of primary to secondary turns of transformer should be:  
 ✓ (A) 25 (B) 10 (C) 15 (D) 20
151. The synchronous speed of a three phase induction motor having 20 poles and connected to a 50 Hz source is:  
 (A) 1200 rpm ✓ (B) 300 rpm  
 (C) 600 rpm (D) 1000 rpm

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