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# UPSSSC JE

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**29 JULY 2021**

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**TILL THE EXAM**

— DURATION —  
**400+ HOURS**

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**Q : ) As per I.S. code, the weight of timber is specified at**

**A : 8% moisture content**

**B : 10% moisture content**

**C : 12% moisture content**

**D : 14% moisture content**

**Q : ) The weight of the hammer used in the standard penetration test is:**

**A : 50 kg**

**B : 60 kg**

**C : 65 kg**

**D : 75 kg**



**Q : ) Un-confined compression test is generally applicable to**

**A : Non-cohesive soil**

**B : Saturated clays**

**C : Silt**

**D : Sandy soil**

**Q : ) The coefficient of discharge,  $C_d$  in terms of  $C_v$  and  $C_c$  is given (notations have their usual meaning)-**

**A :  $C_d = C_v / C_c$**

**B :  $C_d = C_v \times C_c$**

**C :  $C_d = \frac{C_c}{C_v}$**

**D : None of the above**



**Q : ) In a 12cm diameter pipe, the major losses are equal to  $5.0 v^2/2g$ . The equivalent length of pipe to account for the major losses for  $f = 0.04$  is**

**A : 5m**

**B : 15m**

**C : 10m**

**D : 20m**

**Q : ) Discharge  $Q$  in a triangular weir varies as-**

**A :  $H$**

**B :  $H^{1.5}$**

**C :  $H^{0.5}$**

**D :  $H^{2.5}$**



**Q : ) The correct sequence in the direction of the flow of water for installation of hydropower plant is**

**A : Reservoir, surge tank, turbine, penstock**

**B : Reservoir, penstock, surge tank, turbine**

**C : Reservoir, penstock, turbine, surge tank**

**D : Reservoir, surge tank, penstock, turbine**

**Q : ) Mohr's circle is drawn for**

- 1. A point**
- 2. A square block**
- 3. A rectangular block**
- 4. Isotropic material**

**The correct answer is-**

- A : 1, 2 and 3**
- B : 2 and 4**
- C : 1 and 4**
- D : 2, 3 and 4**



**Q : ) In the design of steel structures, the ratio of the effective length of a member to the radius of gyration of the cross-section about the axis under consideration is called as**

**A : Modulus of elasticity**

**B : Slenderness ratio**

**C : Stress ratio**

**D : Aspect ratio**

**Q : ) When the water surface level of drain is at high flood level. Higher than the canal bed level. The cross drainage work is called.**

**A : Super passage**

**B : Aqueduct**

**C : Canal syphon**

**D : Syphon aqueduct**

**Q : ) The safety valve of a dam is its**

**A : Spillway**

**B : Inspection gallery**

**C : Outlet sluices**

**D : Drainage gallery**



**Q : ) Working out exact quantities of various items of working is known as:**

**A : Quantity surveying**

**B : Estimating**

**C : Valuation**

**D : All of the above**

**Q : ) The horizontal component of reaction at both lower end of a 3-hinged arch is known as**

**A : Thrust**

**B : Pull**

**C : Bending**

**D : Shear**

**Q : ) If a quantity A has a weight of 3,  
then the weight of  $A/3$  will be:**

**A : 28**

**B : 27**

**C : 24**

**D : 21**



**Q : ) Bowditch rule is applied in the adjustment of**

**A : Open traverse**

**B : Closed traverse**

**C : Local attraction**

**D : None of the above**

**Q : ) The Indian standard (IS) 800:2007 divides various compression member cross-sections into how many buckling classes?**

**A : 1**

**B : 2**

**C : 3**

**D : 4**

**Q : ) The effective length of a balanced column can be increases by ..... Of the corresponding effective length of similar laced column.**

- A : 5%**
- B : 8%**
- C : 15%**
- D : 10%**



**Q : ) Equivalent area of a reinforced cement concrete section is :**

**A :  $m A_c + A_{sc}$**

**B :  $A_c + m A_{sc}$**

**C :  $A_c + A_{sc}$**

**D :  $(A_c + m A_{sc}) \sigma_c$**

**Q : ) For bar in compression, the values of bond stress for bars in tension for M20 grade shall be increased by**

**A : 15%**

**B : 25%**

**C : 60%**

**D : None of above**

**Q : ) The maximum number of steps in a flight of a staircase generally should be**

**A : 10**

**B : 12**

**C : 15**

**D : No limit**



**Q : ) A water supply scheme is to be designed for an area with over 90% population as lower income group. What should be the water demand (liter per day) considered in designing such system?**

**A : 100**

**B : 135**

**C : 150**

**D : 200**

**Q : ) The dispersion of pollutants in atmosphere is maximum when**

**A : Environmental lapse rate is greater than adiabatic lapse rate**

**B : Environmental lapse rate is less than adiabatic lapse rate**

**C : Environmental lapse rate is equal to adiabatic lapse rate**

**D : Maximum mixing depth is equal to zero**

**Q : ) The reference pressure used in the determination of sound pressure level is**

**A :  $20\mu\text{pa}$**

**B : 20dB**

**C :  $10\mu\text{pa}$**

**D : 10dB**

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