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**The striping time for the Reinforced Concrete slab spanning less than 4.5 m and using fly ash as an admixture should be**

- (a) 7 days**
- (b) 10 days**
- (c) 14 days**
- (d) 21 days**



**The nominal cover requirements for meeting the durability requirement of mild, very severe, severe, moderate, extreme types of exposure are respectively in mm**

- (a) 20, 30, 45, 50, 75**
- (b) 20, 45, 30, 50, 75**
- (c) 20, 50, 45, 30, 75**
- (d) 20, 75, 50, 30, 45**

**Poisson's ratio for concrete**

- (a) remains unchanged**
- (b) increases with richer mixes**
- (c) decreases with richer mixes**
- (d) none of these**



**Effective moment of inertia for short term deflection of a reinforced concrete section does not depend on**

- (a) the maximum moment under the service load**
- (b) depth of the neutral axis**
- (c) breadth of the compression face**
- (d) ultimate shrinkage strain of concrete.**

**Effective moment of inertia for short term deflection of a reinforced concrete section does not depend on**

- (a) the maximum moment under the service load**
- (b) depth of the neutral axis**
- (c) breadth of the compression face**
- (d) ultimate shrinkage strain of concrete.**



**The cover of longitudinal reinforcing bar in a beam subjected to sea spray should not be less than which one of the following?**

- (a) 25 mm**
- (b) 40 mm**
- (c) 70 mm**
- (d) 90 mm**

**The factor used to account for the difference in strength indicated by cube test and the strength of concrete in structures**

- (a) 0.67**
- (b) 0.87**
- (c) 1.15**
- (d) 1.87**



**In general, the coefficient of thermal expansion of concrete does not depend on which of the following factors**

- (a) Type of cement**
- (b) Type of aggregate**
- (c) The cement content**
- (d) The quality of water**

**According to IS 456, if the maximum aggregate size is increased from 20 mm to 40 mm, the minimum cement content requirement changes (in kg/cum) by:**

- (a) -20**
- (b) 20**
- (c) -30**
- (d) 30**



**According to IS 456, undernormal circumstances, the maximum cement content in kg/cum (including fly ash and slag) allowed is**

**(a) 500**

**(b) 400**

**(c) 450**

**(d) 600**

**A concrete mix of grade M40 is to be used for machine. The pavements using paver recommended slump range as per IS:456-2000 is:**

- (a) 25-75 mm**
- (b) 50-100 mm**
- (c) 75-100 mm**
- (d) 100-150 mm**

**The recommended slump for pumped concrete is :**

- (a) 1-2 inches**
- (b) 2-4 inches**
- (c) 3-4 inches**
- (d) 4-6 inches**



**Which of the following is not used in the design of concrete mixes as per the relevant Indian standard?**

- (a) Air content**
- (b) Water content**
- (c) Admixture content**
- (d) Bulk density of cement**

**A flat slab of span length of 6.45 m was cast today afternoon. As per the recommendations of IS 456, the minimum time after which the props should be removed is:**

- (a) 7 days**
- (b) 10 days**
- (c) 14 days**
- (d) 21 days**

**Creep deformation is a property of any material to deform under the influence of**

- (a) Thermal stresses**
- (b) Moisture related stresses**
- (c) Mechanical stresses**
- (d) Stresses due to wind loads**



**Which of the following is not a component of an expansion joint used in jointed plain cement concrete?**

- (a) Dowel bars**
- (b) Joint filler**
- (c) Joint sealer**
- (d) Tie bar**

**For lightly reinforced sections in slabs, beams. columns etc. the slump should be**

- (a) 15-25 mm**
- (b) 25-75 mm**
- (c) 50-100 mm**
- (d) 75-100 mm**

**Aluminium powder in concrete is used as**

- (a) Retarder**
- (b) air entraining agent**
- (c) Accelerator**
- (d) plasticizer**



**The workability of concrete required for the heavily reinforced sections in slab, beam and column is:**

- (a) very low**
- (b) very high**
- (c) Low**
- (d) medium**

**In M-15, 15 stands for.....days  
compressive strength of concrete in  
 $\text{N/mm}^2$**

- (a) 28.5**
- (b) 10**
- (c) 20**
- (d) None of these**

As per IS: 456-2000 actual measure values of modulus of elasticity  $E$ , may be from  $E_s = 5000 \sqrt{f_{ck}}$  (with usual notation)

(a)  $\pm 25\%$

(b)  $\pm 5\%$

(c)  $\pm 10\%$

(d)  $\pm 20\%$



**Which of the following is a method of mechanical ventilation?**

- (a) Plenum System**
- (b) Bleeding System**
- (c) Segregation System**
- (d) Natural Ventilation System**

**The minimum clear covers (in mm) to the main steel bars in slab, beam, column and footing are respectively**

- (a) 10, 15, 20, 25**
- (b) 15, 25, 40, 75**
- (c) 20, 25, 30, 40**
- (d) 20, 35, 40, 75**

**The height to diameter ratio of cylindrical specimen for uniaxial compression test of concrete is:**

- (a) 0.50**
- (b) 0.30**
- (c) 0.25**
- (d) 2.00**

**Minimum period formwork to  
slabs: before before striking striking off it**

**(a) 21 days**

**(b) 7 days**

**(c) 3 days**

**(d) 1 day**

**The permissible or allowable compressive stress for brick masonry does not depend on**

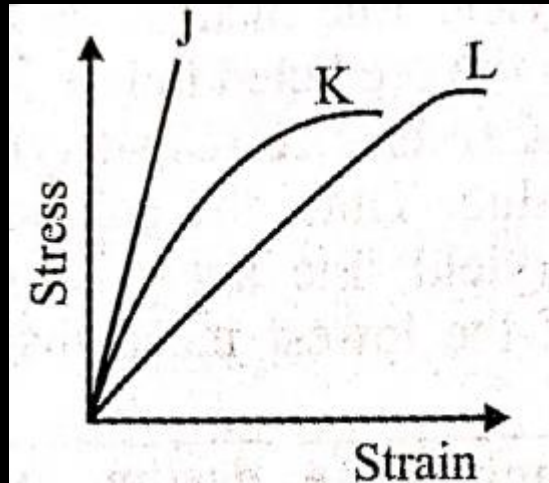
- (a) Type and strength of bricks**
- (b) Efflorescence of bricks**
- (c) Strength of mortar**
- (d) Slenderness ratio**



**Which one of the following is not used in concrete mix design?**

- (a) Degree of quality control of concrete**
- (b) Workability of concrete**
- (c) Characteristic compressive strength of concrete at 28 days**
- (d) Initial setting time of cement**

Group I	Group II
P. Curve J	1. Cement paste
Q. Curve K	2. Coarse aggregate
R. Curve L	3. Concrete



**Group I contains representative stress-strain curves as shown in the figure, while Group II gives the list of materials. Match the stress strain curves with the corresponding materials.**

- (a) P-1, Q-3, R-2
- (b) P-2, Q-3, R-1
- (c) P-3, Q-1, R-2
- (d) P-3, Q-2, R-1

**In the fourth amendment May 2013 of IS 456 2000, M60 grade has been shifted to**

**(a) standard concrete from high strength concrete**

**(b) high strength concrete from high strength standard concrete**

**(c) standard concrete from an ordinary concrete**

**(d) ordinary concrete from a standard concrete**

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