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**Q : 1) An activated carbon is specially treated carbon which has the property of absorbing and attracting impurities. Which of the following points is/are not among the advantages of activated carbon?**

**A: It minimizes the chlorine demand of treated water**

**B: It accelerates the coagulation**

**C: Its overdose is harmful**

- |                  |                   |
|------------------|-------------------|
| <b>1. Only B</b> | <b>2. A and C</b> |
| <b>3. Only C</b> | <b>4. Only A</b>  |

**Q : 2) Which of the following statements is/are not among the major limitations of sprinkler irrigation?**

**A: Strong wind disturbs the sprinkling**

**B: It requires heavy initial investment**

**C: It minimizes the erosion of the soil**

- |                  |                      |
|------------------|----------------------|
| <b>1. Only B</b> | <b>2. A, B and C</b> |
| <b>3. Only A</b> | <b>4. Only C</b>     |



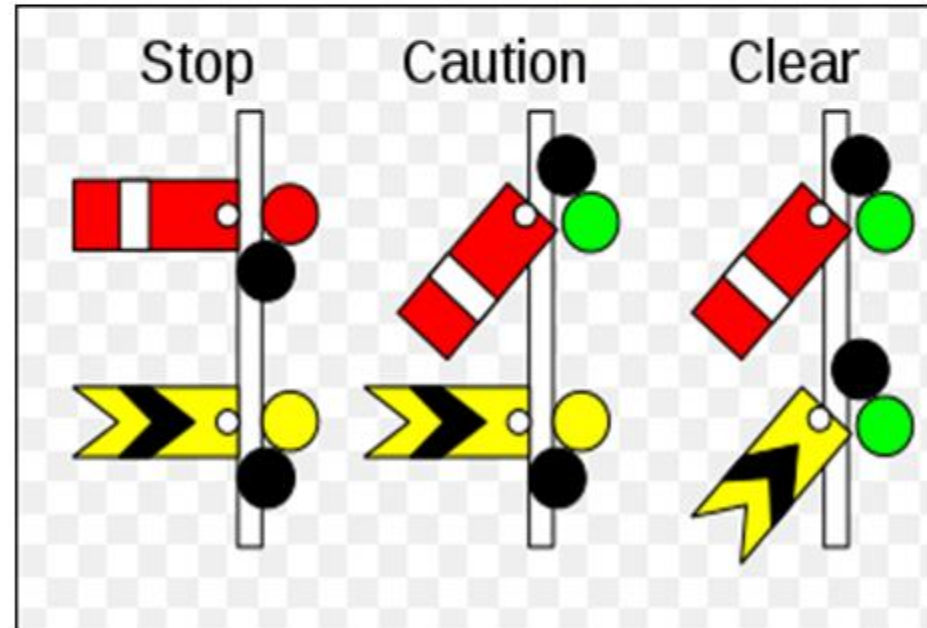
**Q : 3) Which one of the following is not among the types of signals classified on the basis of their function?**

- 1. Shunting signals**
- 2. Semaphore signals**
- 3. Advance starter signals**
- 4. Warner signals**

A **shunting** signal controls low speed movements where provision of a main signal is not appropriate, such as moves into sidings. Clearance of a **shunting** signal does not necessarily imply that the line ahead is clear of vehicles.



**Semaphore**, method of visual **signaling**, usually by means of flags or lights. Before the invention of the telegraph, **semaphore** **signaling** from high towers was used to transmit messages between distant points.



Type of construction	Recommended slump in mm (maximum)
A. Pavements	I. 75
B. Unreinforced footings	II. 50
C. Reinforced foundations	III. 100
D. Columns	IV. 125

**Q : 4) As recommended in IS 456 match the following according to the recommended slumps for various concrete works and select the correct answer using codes as given below.**

- 1. A-I, B-II, C-III, D-IV**
- 2. A-II, B-I, C-III, D-IV**
- 3. A-IV, B-II, C-III, D-I**
- 4. A-I, B-III, C-II, D-Ib**



<i>Placing Conditions</i>	<i>Degree of Workability</i>	<i>Slump (mm)</i>
(1)	(2)	(3)
Blinding concrete; Shallow sections; Pavements using pavers	Very low	See 7.1.1
Mass concrete; Lightly reinforced sections in slabs, beams, walls, columns; Floors; Hand placed pavements; Canal lining; Strip footings	Low	25-75
Heavily reinforced sections in slabs, beams, walls, columns;	Medium	50-100
Slipform work; Pumped concrete		75-100
Trench fill; <i>In-situ</i> piling	High	100-150
Tremie concrete	Very high	See 7.1.2

NOTE—For most of the placing conditions, internal vibrators (needle vibrators) are suitable. The diameter of the needle shall be determined based on the density and spacing of reinforcement bars and thickness of sections. For tremie concrete, vibrators are not required to be used (*see also* 13.3).

**Q : 5) Which term is appropriate for the branch of physical geography which deals with the origin, distribution of water on the earth surface?**

- 1. Oxidation**
- 2. Hydropethia**
- 3. Hydrology**
- 4. Hydrolysis**

**Q : 6) In which type of foundation the length is considerably greater than its width?**

- 1. Raft foundation**
- 2. Pile foundation**
- 3. Footing**
- 4. Strip foundation**



**Q : 7) \_\_\_\_\_ is the algebraic sum of the moments of the forces on either side of the section of a loaded beam.**

- 1. Retaining walls**
- 2. Modulus of resilience**
- 3. Shearing force**
- 4. Bending moment**

**Q : 8) Assume L is the load in Newton and A is cross-sectional area, then stress (denoted by s) is equal to:**

- 1.  $S = A + L$**
- 2.  $S = A * L$**
- 3.  $S = L/A$**
- 4.  $S = A/L$**

**Q : 9) A 8 mm thick copper sheet is cut with a 9 cm diameter round punch. If the punch exerts a force of 16 kN, find the shear stress in the sheet .**

- 1. 9.80 MPa**
- 2. 11.43 MPa**
- 3. 7.08 MPa**
- 4. 17.86 MPa**



**Q : 10) According to the soil mechanics, which type of soil is not fully consolidated under the existing overburden pressure?**

- 1. Compressed soil**
- 2. Normally consolidated soil**
- 3. Under-consolidated soil**
- 4. Pre-consolidated soil**

**Q : 11) \_\_\_\_\_ is the normal stress when it acts into the area.**

- 1. Shear stress**
- 2. Torsional stress**
- 3. Compressive stress**
- 4. Tensile stress**

**Q : 12) According to the assumptions of Terzaghi's one-dimensional consolidation theory, which of the following statements is/are incorrect?**

- A. The soil is homogeneous.**
- B. The soil is 100% unsaturated.**
- C. The soil is laterally confined**

- |                   |                  |
|-------------------|------------------|
| <b>1. B and C</b> | <b>2. Only A</b> |
| <b>3. Only C</b>  | <b>4. Only B</b> |

**Q : 13) Which of the following statements is/are true about the types of gauge in Indian railways?**

- I. In broad gauge, the clear distance between the inner faces of two rails is 1.676 m**
- II. In metre gauge, the clear distance between the inner faces of two rails is 1.240 m**
- III. In Narrow gauge, the clear distance between the inner faces of two rails is 0.762 m**

- |                         |                     |
|-------------------------|---------------------|
| <b>1. I, II and III</b> | <b>2. I and III</b> |
| <b>3. I and II</b>      | <b>4. Only I</b>    |

**Q : 14) Which among the following is/are the correct assumptions in the theory of simple bending?**

- A. The loads act perpendicular to the beam axis.**
- B. The beam bends to a circular arc.**
- C. The beam is initially straight of constant cross-section.**

- |                  |                      |
|------------------|----------------------|
| <b>1. Only A</b> | <b>2. A, B and C</b> |
| <b>3. Only B</b> | <b>4. A and B</b>    |



**Q : 15) A project engineer collects a sample of red soil having moist unit weight of a soil is  $18.5 \text{ kN/m}^3$ . Water content available is 22% and the specific gravity of the solid of the soil is 2.85. Find the void ratio. (Assume unit weight of water =  $9.81 \text{ kN/m}^3$ )**

- 1. 0.73**
- 2. 0.91**
- 3. 0.84**
- 4. 0.74**



**Q : 16) \_\_\_\_\_ is an engineered material that contains cement, polymers, and glass fibers. It is mainly used in concrete products including ornamental structures, fountains, domes etc.**

- 1. Glass fiber reinforced concrete**
- 2. Polypropylene fiber reinforced**
- 3. Natural fiber reinforced concrete**
- 4. Fiber glass reinforced concrete**

**Q : 17) According to the level of pressure applied, lateral earth pressure is classified into various types. Which of the following type of lateral earth pressure refers to the minimum pressure exerted by the soil on the retaining wall?**

- 1. Earth pressure at rest**
- 2. Active earth pressure**
- 3. Passive earth pressure**
- 4. Cylindrical earth pressure**

**Q : 18) In the pile foundation, which type of pile act as columns and transmit the load through weak soil to a firm stratum at a great depth?**

- 1. Footing piles**
- 2. End bearing piles**
- 3. Compaction piles**
- 4. Friction piles**

**Q : 19) What is the name of the method of design of a reinforced cement structure in which optimum use of inherent strength of both steel and concrete is made?**

- 1. RCC stress design**
- 2. Axially loaded design**
- 3. Optimum load design**
- 4. Ultimate load strength design**



**Q : 20) Which of the following factors affect(s) the per capita demand of water?**

**A: Climatic conditions of the region**

**B: Industrial/commercial activities of the region**

**C: Population**

- 1. Only C**
- 2. A and C**
- 3. A, B and C**
- 4. Only A**

**Q : 21) If R is the radius of the curve in meters and C is the chord length in meters what would be the expression to denote versine 'V' in millimeters?**

**A:  $V = 127 C^2/R$**

**B:  $V = 127 R^2/C$**

**C:  $V = 125 C^2/R$**

**D:  $V = 125 R^2/C$**

**Q : 22) A surveyor made an error during the survey of a project which is associated with his skills and vigilance. Which type of error this surveyor has committed?**

- 1. Random errors**
- 2. Systematic errors**
- 3. Constant errors**
- 4. Blunders**

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