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Q : 53) Which of the following is not a test for measuring workability of concrete?

A : Slump test

B : Flow test

C : std. consistency test

D : Kelly ball test

Q : 54) The slump recommended for mass concrete is about-

A : 50 mm to 100 mm

B : 25 mm to 75 mm

C : 100 mm to 125 mm

D : None of these

Q : 55) Consider the following statements. Which of these are correct?

High water to cement ratio in concrete result in

- 1. Stronger mix**
- 2. Better workable mix**
- 3. Weak mix**
- 4. Less bleeding**

A : 1 and 2

B : 2 and 3

C : 3 and 4

D : 1 and 4

Q : 56) The most commonly used admixture which increases the workability of concrete is called as

A : Plasticizers

B : Retarders

C : Accelerators

D : Air entraining agents

Q : 57) Which of the following grades of concrete is recommended by BIS for moderate exposure condition?

A : M10

B : M15

C : M20

D : M25

Q : 58) As per IS code provision the tolerance on placing of reinforcement in a structural member having effective depth more than 200 mm shall be:

A : ± 20 mm

B : ± 15 mm

C : ± 10 mm

D : ± 25 mm

Q : 59) Match List-I (Admixtures) with List-II (Chemicals) and select the correct answer using the options given below:

List-I	List-II
P. Water reducing admixture	1. Sulphonated melanin formaldehyde
Q. Air-entraining agent	2. Calcium chloride
R. Super plasticizer	3. Lignosulphonate
S. Accelerator	4. Neutralizer vinsol resin

A : 2, 4, 1, 3

B : 1, 3, 4, 2

C : 3, 4, 1, 2

D : 3, 4, 2, 1

Q : 60) Why is super plasticizer added to concrete?

- (i) To reduce the quantity of mixing water**
- (ii) To increase workability**
- (iii) To reduce the quantity of cement**
- (iv) To increase early age strength**

A : (i) and (iv)

B : (i), (ii) and (iv)

C : (ii) and (iv)

D : (i), (ii), (iii) and (iv)

Q : 61) In which of the following, the concrete is dropped from a height to measure its workability

A : Slump test

B : Vee Bee test

C : Compaction factor test

D : Flow test

Q : 62) Consider the following strength of concrete:

- (i) Cube strength**
- (ii) Cylinder strength**
- (iii) Split-tensile strength**
- (iv) Modulus of rupture**

The correct sequence in increasing order of the strength is

- A : (iii), (iv), (ii), (i)**
- B : (iv), (iii), (ii), (i)**
- C : (iii), (iv), (i), (ii)**
- D : (iv), (iii), (i), (ii)**

Q : 63) According to IS 456 : 2000, the recommended slump (in mm) range for in-situ piling using concrete is:

A : 25-75

B : 100-150

C : 50-100

D : 75-100

Q : 64) Light weight concrete is also known as

A : Low concrete

B : Lean concrete

C : Transparent concrete

D : Cellular concrete

Q : 65) The durability of concrete is proportional to:

A : Sand content

B : Water-cement ratio

C : Cement aggregate ratio

D : Aggregate water ratio

Q : 66) For RCC construction, the maximum size pf coarse aggregate is limited to:

A : 10 mm

B : 15 mm

C : 20 mm

D : 25 mm

Q : 67) Which of the following methods will help in reducing segregation in concrete?

- 1. Not using vibrator to spread the concrete**
- 2. Reducing the continued vibration**
- 3. Improving the cohesion of a lean dry mix through addition of a further small quantity of water**

A : 1, 2 and 3 B : 1 and 2 only

C : 1 and 3 only D : 2 and 3 only

Q : 68) In handling air-entraining admixtures the beneficial amount of entrained air depends upon certain factors like

- 1. Type and quantity of air-entraining agent**
- 2. Water-cement ratio of the mix**
- 3. Strength of aggregates**
- 4. Extent of compaction of concrete**

A : 1, 2 and 3 only

B : 1, 2 and 4 only

C : 1, 3 and 4 only

D : 1, 2, 3 and 4

Q : 69) Statement (I) : Rapid method of concrete mix design will take 3 days for trials.

Statement (II) : This rapid method depends on curing the concrete in warm water at or above 55°C.

A : Both statements-I and statements-II are individually true and statements-II is the Not correct explanation of statement-I

B : Both statements-I and statements-II are individually true and statement-II is the NOT correct explanation of statement-I

C : Statement-I is true but statement-II is false

D : Statement-I is false but statement-II is true.

Q : 70) The yield of concrete per bag of cement for a concrete mix proportion of 1 : 1.5 : 3 (with adopting $\frac{2}{3}$ as the coefficient) is

A : 0.090 m³

B : 0.128 m³

C : 0.135 m³

D : 0.146 m³

Q : 71) Consider the following statements regarding cyclopean concrete:

- 1. Size of aggregate is more than 150 mm**
- 2. Size of aggregate is less than 150 mm**
- 3. High slump**
- 4. High temperature rise due to heat of hydration**

Which of the above statements are correct?

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

Q : 72) The cement concrete from which entrained air and excess water are removed after placing it in position is called

A : Light weight concrete

B : Prestressed concrete

C : Air entrained concrete

D : Vaccum concrete

Q : 73) The cement and water slurry coming on the top and setting on the surface is called:

A : Crazing

B : Efflorescence

C : Sulphate deterioration

D : Laitance

Q : 74) The stress strain curve of concrete is obtained by testing the cylindrical specimen under

A : Uniform rate of strain

B : Uniform rate of stress

C : Constant stress condition

D : Constant strain condition

Q : 75) If P, Y and Z are the weights of the cement, fine aggregates, and coarse aggregates respectively and W/C is the water cement ratio, the minimum quantity of water to be added to first batch, is obtained by the equation.

A : $0.1P + 0.3Y + 0.1Z = (W/C) \times P$

B : $0.2P + 0.5Y + 0.1Z = (W/C) \times P$

C : $0.3P + 0.1Y + 0.01Z = (W/C) \times P$

D : $0.5P + 0.3 Y + 0.01Z = (W/C) \times P$

Q : 76) The batching accuracy (in %) of water used for mixing concrete should be within:

A : ± 2

B : ± 1

C : ± 5

D : ± 3

Q : 77) While testing the compressive strength of cement concrete, the correct standard conditions (viz temperature, age, humidity and size of the specimen) to be maintained as per IS are

A : $27 \pm 3^{\circ}\text{X}$, 28 days, 90% and 15 cm cube

B : $26 \pm 2^{\circ}\text{C}$, 28 days, 80% and 15 cm cube

C : $25 \pm 1^{\circ}\text{C}$, 14 days, 75% and 10 cm cube

D : $27 \pm 3^{\circ}\text{C}$, 7 days, 70% and 10 cm cube

Q : 78) In the case of concrete where mineral admixtures or blended cements are used, it is recommended to cure the concrete for the minimum period of

.....

A : 10 days

B : 20 days

C : 14 days

D : 5 days

Q : 79) Self compacting concrete is characterized by

A : High powder component

B : High water powder ratio

C : Cementations materials upto 30%

D : Rough surface finish

Q : 80) The minimum quantity of cement content needed in 1 m³ of a reinforced concrete which is exposed to weather is (in kg)

A : 200

B : 250

C : 300

D : 350

Q : 81) Ultrasonic pulse velocity test to measure the strength of concrete is

I. Used to obtain estimate of concrete strength of finished concrete elements.

II. Used to measure strength of wet concrete

III. A non-destructive test.

Which of the above statement are correct?

A : I and III

B : II and III

C : I and II

D : I, II and III

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