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Q :) The minimum period before stripping the framework for props to slabs spanning 6 m is

A : 16-24 h

B : 3 days

C : 7days

D : 21 days

E : 14 days



Q :) Grading of aggregate in the concrete mix is necessary to achieve

A : Adequate workability

B : Higher density

C : Reduction in voids

D : Better durability



Q :) The advantage of adding pozzolana to lime is

A : To reduce shrinkage

B : Increase resistance to cracking

C : Increase resistance to chemical attack

D : All of the above



Q :) In the context of air entrainment in fresh concrete consider the following statements:

Statement-1: Air entrainment is required in cases when concrete is likely to be subjected to alkali aggregate reaction.

Statement-2: Air entrainment has the effect of increasing the workability of concrete at the same unit water content.

Which of the following is correct?

A : Statement-1 is TRUE and Statement-2 is FALSE

B : Both statements are FALSE

C : Both statements are TRUE

D : Statement-1 is false and statement-2 is TRUE

Q :) As per IS 383, code of specifications, the desirable limit for crushing value of coarse aggregates used for concrete other than wearing surface is

_____.

A : 10%

B : 45%

C : There is no recognized limits have been laid down for crushing value

D : 25%



Q :) Match the items in list 1 (Property of cement) with those in list 2 (Method for conduct of test) using the codes in the list.

List 1	List 2
P. Soundness test	1. Vicat's apparatus test
Q. Fineness	2. Le-chatelier apparatus
R. Setting time	3. Briquette test
S. Tensile strength	4. Air permeability method

A : P-3, Q-4, R-2, S-1

B : P-4, Q-2, R-3, S-1

C : P-2, Q-4, R-1, S-3

D : P-1, Q-4, R-2, S-3



Q :) Choose the correct statement.

- a) The strength of fully compacted concrete is inversely proportional to the water cement ratio.**
- b) The strength of fully compacted concrete is directly proportional to the water cement ratio.**

A : Statement (a) is true

B : Statement (b) is true

C : Both the statements (a) and (b) are true

D : Both the statements (a) and (b) are false

E : Information insufficient



Q :) The required workability of concrete in terms of slump for an ordinary reinforced cement concrete (RCC) work for beams and slabs is:

A : 25-30 mm

B : 40-45 mm

C : 50-100 mm

D : 120-150 mm

E : More than 150 mm



Q :) The thermal coefficient of concrete is:

A : $0.5 \times 10^{-6} /^{\circ}\text{C}$ - $1 \times 10^{-6} /^{\circ}\text{C}$

B : $8 \times 10^{-6} /^{\circ}\text{C}$ - $10 \times 10^{-6} /^{\circ}\text{C}$

C : $25 \times 10^{-6} /^{\circ}\text{C}$ - $2.5 \times 10^{-6} /^{\circ}\text{C}$

D : $4.5 \times 10^{-6} /^{\circ}\text{C}$ - $2.5 \times 10^{-6} /^{\circ}\text{C}$

E : $30 \times 10^{-6} /^{\circ}\text{C}$ - $35 \times 10^{-6} /^{\circ}\text{C}$



Q :) The aggregate crushing value for concrete as per Indian conditions varies from:

A : 30-45 percent

B : 18-27 percent

C : 50-65 percent

D : 5-10 percent

E : 15-20 percent



Q :) The minimum stripping time before striking of formwork in case of reinforced concrete (RC) column is:

A : 3 days

B : 7 days

C : 14 days

D : 21 days

E : None of the above options



Q :) In 500 gm sample of coarse aggregate, there are 100 gm flaky particles and 8- gm elongated particles. What are the flakiness and elongation indices (total) as per IS?

A : 40%

B : 36%

C : 18%

D : 4%



Q :) The value of pulse velocity of good quality concrete should be:

A : More than 3.5 km/s

B : Less than 3.5 km/s

C : Less than 2.0 km/s

D : None of the above



Q :) Compaction factor of 0.85 indicates a mix of:

A : Low workability

B : High workability

C : Very low workability

D : None of the above



Q :) Fineness modulus is-

A : The ratio of fine aggregates to coarse aggregates

B : The ratio of fine aggregates to total aggregate

C : An index which gives the mean size of the aggregates used in a mix

D : None of the above

Q :) If characteristic compressive strength at 28 days is 40 N/mm^2 and the standard deviation is 5 N/mm^2 , the target strength at 28 days for concrete mix proportioning

A : 40 N/mm^2

B : 45 N/mm^2

C : 43.25 N/mm^2

D : 48.25 N/mm^2



Q :) 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 :) Which of the following coarse aggregate requires minimum cement paste?

A : Rounded

B : Irregular

C : Angular

D : Flaky



Q :) Which of the following aggregate should not be used in the manufacture of concrete as it exhibits alkali-aggregate reaction?

A : Basalt

B : Granite

C : Limestone

D : All of these



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

A : M10

B : M15

C : M20

D : M25



Q :) Slump and compaction factor are two different measure of workability of concrete. For a slump of 0 to 20, what is the equivalent range of compaction factor?

A : 0.4 - 0.7

B : 0.7 – 0.9

C : 0.7 – 0.8

D : 0.6 – 0.8



Q :) As per IS code of practice, concrete should be cured at:

A : 35°C

B : 25°C

C : 27°C

D : 50°C



Q :) Which of the following Indian standard is referred to determined zone of fine aggregate?

A : IS 1237

B : IS 456

C : IS 283

D : IS 1893



Q :) 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. Neutralized vinsol resin

A : 2, 4, 1, 3

B : 1, 3, 4, 2

C : 3, 4, 1, 2

D : 3, 4, 2, 1

Q :) 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 : (iii) and (iv)

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



Q :) If creep coefficient for concrete at 7 days is k_1 and 28 days is K_2 then

A : $k_1 > K_2$

B : $K_1 < K_2$

C : $k_1 = K_2$

D : $K_1 \leq K_2$



Q :) The development of hair-like cracks usually in an irregular pattern caused by the shrinkage of concrete surface is called as

A : Blistering

B : Cracking

C : Crazing

D : Laitance

E : Grinning



Q :) Which of the following is NOT a fully non-destructive testing of concrete?

A : Rebound hammer

B : Core

C : Ultrasonic pulse velocity

D : Profometer for rebar



Q :) Which of the following impurities in the mixing water is destructive for concrete?

A : Calcium chloride

B : Lead nitrate

C : Alkalies

D : Algae



Q :) The total number of test strength of samples required to constitute an acceptable record for calculation of standard deviation for each grade of concrete shall not be less than-

A : 15

B : 21

C : 28

D : 30



Q :) Concrete mix proportioning guidelines are given by-

A : IS 875 (part-1)-1987

B : IS 456-2000

C : IS 10262-2009

D : IS 800-2007



Q :) Progressive increase in the inelastic deformation of concrete under sustained stress component is known as

A : Shrinkage of concrete

B : Creep of concrete

C : Deformation of concrete

D : Yielding of concrete



Q :) Light weight concrete is also known as

A : Low concrete

B : Lean concrete

C : Transparent concrete

D : Cellular concrete



Q :) Presence of air bubbles in concrete

A : Shall increase the strength of concrete

B : Shall reduce the strength of the concrete

C : Shall increase the strength of the concrete but make it brittle

D : Shall not affect the strength of the concrete



Q :) Choose the correct combination:

1. Retarder	P. Fly ash
2. Accelerator	Q. Superplasticizer
3. Pozzolana	R. Gypsum
4. Workability	S. Calcium chloride

A : 1-R, 2-S, 3-P, 4-Q

B : 1-S, 2-R, 3-P, 4-Q

C : 1-R, 2-P, 3-S, 4-Q

D : 1-R, 2-S, 3-Q, 4-P



Q :) Proneness to segregation of fresh concrete is better tested by:

A : Slump test

B : Flow test

C : Vee Bee test

D : Compaction factor test



Q :) In handling air-entraining mixtures 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 :) 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 :) The compressive strength of 100 mm cube of concrete as compared to 150 mm cube is

A : Less

B : More

C : Equal

D : Less or more as per grade of concrete



Q :) Polymer concrete is most suitable for:

A : Sewage disposal works

B : Mass concreting work

C : Insulating exterior walls of an air-conditioned building

D : Road repair works



Q :) If fineness modulus of aggregate is 4.1 than it is

A : Fine sand

B : Coarse sand

C : All in aggregate

D : Coarse aggregate



Q :) To make one cubic meter of 1:2:4 by volume concrete, the volume of coarse aggregate required is

A : 0.95 m³

B : 0.85 m³

C : 0.75 m³

D : 0.65 m³



Q :) The stress strain curve of concrete in compression 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 :) A concrete having a slump of 70 mm is termed as

A : Dry

B : Plastic

C : Flowing

D : None of the above



Q :) Identify the correct statement which corresponds to accelerator : retarder.

A : CaCl_2 : CaSO_4

B : NaOH : KOH

C : NaCl : CaCl_2

D : KOH : NaOH



Q :) The strength and quality of concrete depends on:

A : Aggregate shape

B : Aggregate grading

C : Surface area of the aggregate

D : All of the above



Q :) In concreting, what is the purpose of accelerating chemical?

A : To adjust the workability of shotcrete

B : To accelerate the initial strength gain

C : To provide better finish to shotcrete

D : To improve the bonding between substrate and shotcrete

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