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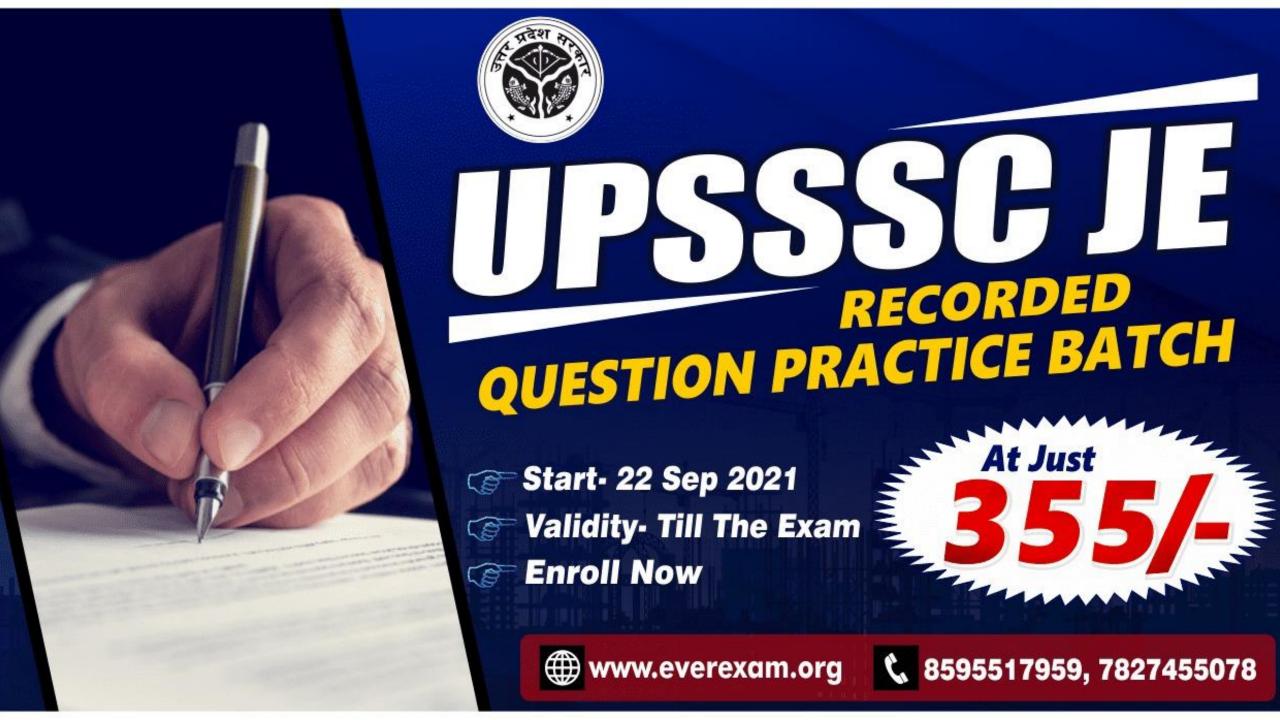


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Daily Class - 7:30 PM

Q:1) In cement, ratio of silica: Lime: Alumina is approximately

A:10:4:1

B:4:10:1

C:1:10:4

D:1:4:10



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Daily Class – 7:30 PM

Q: 2) Which of the following pairs is not matched correctly?

Cement test	Apparatus
(a) Fineness	1. Nurse and Blains
(b) Consistency	2. Vicat
(c) Soundness	3. Le-Chatelier
(d) Sp. Gravity	4. Lea and Nurse



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Q: 3) For low alkali, content is usually restricted to X% by weight, where X is:

A: 0.04

B:0.40

C: 0.50

D: 0.60



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Q: 4) The durability of concrete is proportional to

A: Sand content

B: Water cement ratio

C: Cement aggregate ratio

D : Aggregate water ratio



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Q:5) Before testing setting time of cement, one should test for:

A: Soundness

B: Strength

C: Fineness

D: Consistency



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Q:6) In soundness test by Le Chatelier's apparatus the increase in the distance between the pointers should not be more than

A: 1 to 2 mm

B: 3 to 5 mm

C: 5 to 10 mm

D: 10 to 15 mm



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Q: 7) For testing the compressive and the tensile strength to cement, the cement mortar is made by mixing cement and standard sand in the proportion of

A:1:2

B:1:3

C:1:4

D:1:6



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Q:8) For testing compressive strength of hydraulic cement other than masonry cement as per IS 4031-Part 6. the size of cube used is

OR

For testing of compressive strength of cement, the size of cube mould is:

A: 10 cm

B: 7.06 cm

C: 50 cm

D: 15 cm



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Q:9) Quick setting cement is produced by adding:

A: Less amount of gypsum in powder form

B: More amount of gypsum in powder form

C: Aluminium sulphate in powder form

D: Pozzolana in powder form



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Daily Class - 7:30 PM

Q:10) The ultimate strength of cement is provided by

OR

In hydrated cement paste, the principal strength contributing component is

A: Dicalcium silicate

B: Tricalcium aluminate

C: Silica

D: Tricalcium silicate



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Daily Class – 7:30 PM

Q:11) In the context of use of OPC and other cementations materials used in concrete, consider the following statements:

Sttaement-1: Bogue's equations are used to determine amounts of oxides of calcium, silicon, etc. In a given cement as the amounts of C3S, C₂S, C₃A and C₄AF are known

Statements-2: Particle of both OPC and flyash are spherical in shape.

Which of the following is CORRECT?

A: Both statements are true

B: Statement-1 is false and statement-2 is true

C: Statement-1 is true and statement-2 is false

D: Both statements are false



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Daily Class - 7:30 PM

Q: 12) The amount of tetra calcium aluminoferrite required that is responsible for flash set but generates less heat is approximately _____ of cement.

A: 16-20%

B:8-14%

C: 25-40%

D:5-7%



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Daily Class - 7:30 PM

Q:13) Which of the following is correct of they are arranged in decreasing order of heat of hydration?

$$A: C_3A > C_4AF > C_3S > C_2S$$

B:
$$C_3A > C_4AF > C_2S > C_3S$$

$$C: C_3A > C_3S > C_4AF > C_2S$$

D: None of the above



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Daily Class - 7:30 PM

Q: 14) The addition of pozzolana to Portland cement may cause-

A: Decrease in early strength

B: Increase in early strength

C: Decrease in curing time

D: Increase in permeability



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Daily Class - 7:30 PM

Q:15) During cement manufacturing, when clinkers are formed, kiln temperature approximately is

A:1200°C

B: 1800°C

C: 1600°C

D:1300°C



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Daily Class - 7:30 PM

Q:16) Match List-I (Type of cement) with List-II (Property / Characteristics) and select the correct answer using the codes given below the lists:

List-I (Type of cement)	List-II (Property / characteristics)
A. High strength Portland cement	1. Should not be used with ant admixture
B. Super sulphated cement	2. Is extremely resistant to chemical attack
C. High alumina cement	3. Gives a higher rate of heat development during hydration of cement
D. Rapid hardening Portland cement	4. Has a higher content of tricalcium silicate

Codes:

A:3,2,1,4

C: 4, 1, 2, 3

B: 3, 1, 2, 4

D: 4, 2, 1, 3



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Daily Class - 7:30 PM

Q: 17) Loss on ignition in Portland cement shall not be greater than:

A:4%

B:5%

C:6%

D:3.5%



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Daily Class - 7:30 PM

Q: 18) Which cement has higher corrosion resistance?

A: Having higher C₃A

B: Having higher C₂S

C: Having higher C₃S

D: Having higher Na₂O



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Daily Class - 7:30 PM

Q: 19) For complete hydration of cement, the water cement ratio is:

A : Less than 0.25

B: More than 0.25 but less than 0.35

C: More than 0.35 but less than 0.45

D: More than 0.45 but less than 0.60



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Daily Class - 7:30 PM

Q: 20) Loss of strength of cement stored in bags in go downs for 3 months is about

A:30%

B:50%

C: 15%

D:0%



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Daily Class - 7:30 PM

Q: 21) According to IS 4031 (Part 5), the set time of cement is measured at

A: Room temperature and humidity

B: 25-29 degree C and 90-100% Rel. humidity

C: 25-27 degree C and 95% Rel. humidity

D: 25-29 degree C and 60-70% Rel.

humidity



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Daily Class – 7:30 PM

Q: 22) Which of the following is not used in the design calculation of concrete mix design according to the last version of IS 1026?

A: Water/cement ratio

B: Various zones zone of fine aggregate

C: Water reduction by superplasticizer

D: Alkali content of cement

E: Workability



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Q: 23) Which of the following is not a major constituent of fly-ash?

A: Aluminum oxide

B: Silica

C: Ferrous

D: Cobalt oxide



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Daily Class - 7:30 PM

Q: 24) Maximum content (kg/cm³) of ordinary Portland cement in design mix of concrete (1 m³) is:

A:500

B: 450

C:350

D:400



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Daily Class - 7:30 PM

Q: 25) The percentage of the slag component of Portland-slag cement varies from:

A: 10 to 40%

B: 40 to 70%

C: 70 to 80%

D: 80 to 90%



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Q: 26) The percentage of the residue left after sieving good Portland cement in 90 micron sieve should not exceed.

A:50%

B: 10%

C: 20%

D:30%



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Daily Class – 7:30 PM

- Q: 27) Consider the following statements:
- 1. Hydrophobic cement grains possesses low wetting ability.
- 2. Rapid-hardening cement is useful in concreting under static, or running water
- 3. Quick-setting cement helps concrete to attain high strength in the initial period
- 4. White cement is just a variety of ordinary cement free of colouring oxides

Which of the above statements are correct?

A : 1 and 4 only

B: 1 and 3 only

C: 2 and 4 only

D: 2 and 3 only



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Q: 28) Which one of the following stone is produced by moulding a mixture of iron slag and Portland cement?

A L Imperial stone

B: Garlic stone

C: Ransom stone

D: Victoria stone



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Daily Class - 7:30 PM

Q: 29) Which one of the following cements is a deliquescent?

A: Quick setting Portland cement

B: White and coloured cement

C: Calcium chloride cement

D: Water repellent cement



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Daily Class – 7:30 PM

Q: 30) Blast furnace slag has approximately

A: 45% calcium oxide and about 35% silica

B: 50% alumina and 20% calcium oxide

C: 25% magnesia and 15% silica

D: 25% calcium sulphate and 15%

alumina



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Daily Class - 7:30 PM

Q:31) What percentage of bound water by weight of cement is required for chemical reaction with Portland cement compounds?

A:15%

B:23%

C:38%

D: 40%



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Daily Class - 7:30 PM

Q: 32) AS per IS 10262 OPC is divided into how many grades?

A:3

B:5

C: 7

D:6



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Daily Class - 7:30 PM

Q:33) Amount of water required for soundness test is (in percentage)

A: 0.78 P

B: 0.85 P

C: 0.75 P

D: 0.87 P



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Q: 34) IS code for Portland pozzolana cement is?

A: IS 1489

B: IS 269

C: IS 455

D: IS 3466



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Daily Class - 7:30 PM

Q: 35) Cement is said to be of good quality if

A: It is not smooth when rubbed in between fingers

B: It's colour is greenish gray

C: A handful of cement thrown into a bucket of water does not float



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Daily Class - 7:30 PM

Q: 36) For a 50 kg bag of cement, water required is

A: 22.5 litres

B: 20.5 liters

C: 18.5 liters

D: 23.5 liters



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Daily Class - 7:30 PM

Q: 37) Autoclave method is used to determine:

A: Residue

B: Expansion

C: Heat of hydration

D: Sulphur content



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Daily Class - 7:30 PM

Q: 38) What should be the consistency, in mm, of the mortars used for filling cavities?

A:90-130

B: 100-125

C: 130-150

D:70-80



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Daily Class - 7:30 PM

Q:39) In fineness test of Rapid hardening Portland cement (RHPC) the residue on IS sieve No. 9 should not be more than

A: 1.0%

B:5%

C: 10%

D: 15%



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Daily Class - 7:30 PM

Q: 40) Total sulphur content of cement is less than

A: 0.025%

B: 2.5%

C: 0.25%

D:5.0%



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Q:41) White cement is white in colour due to

A: Use of limestone and China clay free from metal oxides

B: Its modified manufacturing process

C: Specific chemical treatment given to ordinary cement

D: None of these



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Q: 42) What is the maximum permissible additives in cement for construction as per IS code?

A:5%

B:3%

C: 2%

D:4%



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Q: 43) Bulking of sand is maximum if moisture content is approximately

A:4%

B:7%

C: 10%

D:15%



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Daily Class - 7:30 PM

Q:44) A phenomenon commonly observed in river sands for which adequate precautions need to be taken estimating, measuring and receiving sands at constructions sites is:

A: Blistering

B: Silting

C: Hydration

D: Bulking



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Q: 45) Compaction factor apparatus is used to measure which of the following properties of concrete?

A: Consistency

B: Compatibility

C: Compatibility with admixture

D: Cohesiveness



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Q: 46) Grading of aggregate in the concrete mix is necessary to achieve

A: Adequate workability

B: Higher density

C: Reduction in voids

D: Better durability



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Daily Class – 7:30 PM

Q: 47) In the content 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



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- Q: 48) 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



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Q: 49) 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



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Q: 50) Workability of concrete is influenced most by its:

A: Cement content

B: Aggregate – cement ratio

C: Water – cement ratio



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Q: 51) Compaction factor of 0.85 indicates a mix of:

A: Low workability

B: High workability

C: Very low workability

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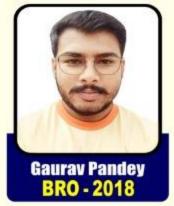
















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