

# SSC JE PRE 2021

## LIVE ONLINE CLASSES



 <b>START DATE</b> <b>14<sup>th</sup></b> <b>JUNE 2022</b>	 <b>DURATION</b> <b>300</b> <b>HOURS</b>	 <b>VALIDITY</b> <b>1</b> <b>YEAR</b>
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**Q : 1) The workability of concrete can be improved by:**

**A : More sand**

**B : More cement**

**C : More fine aggregate**

**D : Fineness of coarse aggregate**

**Q : 2) Density of concrete :**

**A : Increases with a decrease in the size of aggregate**

**B : Independent of the size aggregate**

**C : Increases with increase in the size of aggregate**

**D : All option are correct**

**Q : 3) Workability of concrete mix with low water cement ratio is determined by :**

**A : Slump test**

**B : Tensile strength test**

**C : Compaction factor test**

**D : Flexural strength test**

**Q : 4) If the compaction factor is 0.95,  
workability of concrete is:**

**A : Very low**

**B : Low**

**C : Medium**

**D : High**

**Q : 5) Which of the following proportion of the ingredients of concrete mix, is not in conformation to arbitrary method of proportioning?**

**A : 0.0423842592592593**

**B : 0.0424074074074074**

**C : 0.0438194444444444**

**D : 0.0445601851851852**

**Q : 6) Concrete gains strength due to :**

**A : Chemical action of cement with coarse aggregate**

**B : Hydration of cement**

**C : Evaporation of water**

**D : All option are correct**

**Q : 7) Maximum shrinkage takes place in concrete after drying for :**

**A : 28 days**

**B : Three months**

**C : Six months**

**D : One year**

**Q : 8) Addition of calcium chloride in concrete results in :**

**A : Increased strength**

**B : Reduction in curing period**

**C : Retardation of loss of moisture**

**D : All option are correct**

**Q : 9) Modulus of elasticity for concrete improves by :**

**A : Shorter curing period**

**B : Age**

**C : Higher W.C. ratio**

**D : All option are correct**

**Q : 10) Minimum number of test specimens required for finding the compressive strength of concrete are :**

**A : 3**

**B : 5**

**C : 6**

**D : 9**

**Q : 11) Curing period is minimum for concrete using :**

**A : Rapid hardening cement**

**B : Low heat cement**

**C : Ordinary Portland cement**

**D : Slag cement**

**Q : 12) In a mix if the desired slump is not obtained, the adjustment for each concrete slump difference is made by adjusting water content by :**

**A : 0.0025**

**B : 0.005**

**C : 0.0075**

**D : 0.01**

**Q : 13) If the slump of concrete mix is 60 mm its workability is \_\_\_\_\_.**

**A : Low**

**B : Medium**

**C : High**

**D : very high**

**Q : 14) The durability of concrete is affected by :**

**A : Cinder**

**B : Vinegar**

**C : Alcohol**

**D : Both cinder and vinegar**

**Q : 15) For protection from frost, concrete should be \_\_\_\_\_.**

**A : Dense**

**B : Free form cracks**

**C : Adhesion between mortar and aggregate should be perfect**

**D : All the option are correct.**

**Q : 16) In order to have segregation in concrete dropping height should not less than \_\_\_\_\_.**

**A : 25 cm**

**B : 50 cm**

**C : 100 cm**

**D : 250 cm**

**Q : 17) Strength of concrete show an increase with \_\_\_\_\_.**

**A : Decrease in rate of loading**

**B : Increase in rate o loading**

**C : Unaffected by rate of loading**

**D : Depends on application of load**

**Q : 18) The minimum quantity of cement content that is needed in  $1\text{m}^3$  of a reinforced concrete which is not directly exposed to weather is about in kg :**

**A : 200**

**B : 250**

**C : 300**

**D : 350**

**Q : 19) Poisson's ratio for concrete**

**\_\_\_\_\_.**

**A : increases with richer mix**

**B : Decreases with richer mix**

**C : Remains constant**

**D : None of these**

**Q : 20) The last most suitable for concrete of very low workability is :**

**A : Slump test**

**B : Compaction factor test**

**C : Vee-Bee test**

**D : All option are correct**

**Q : 21) The Young's modulus of concrete ( $E_c$ ) is gives by \_\_\_\_\_.**

**A :  $1000 f_{ck}$**

**B :  $5000 \sqrt{f_{ck}}$**

**C :  $5000 f_{ck}$**

**D :  $100 f_{ck}$**

**Q : 22) Pick up the correct statement from the following :**

**A : The concrete gains strength due to hydration of cement.**

**B : The concrete cured at a temperature below 23°C, gains strength up to 28 days**

**C : The concrete does not set a freezing point.**

**D : All options are correct**

**Q : 23) Pick up the correct statement from the following :**

**A : Higher workability indicated unexpected increase in the moisture content.**

**B : Higher workability indicated deficiency of sand**

**C : If the concrete mix is dry, the slump is zero.**

**D : All option are correct.**

**Q : 24) What is the maximum period for which the lime concrete in foundation be left wet without the start of masonry work over it?**

**A : 3 days**

**B : 5days**

**C : 7 days**

**D : 15 days**

**Q : 25) The lower water-cement ratio in concrete produces\_\_\_\_\_.**

**A : More density**

**B : Small creep and shrinkage**

**C : More bond**

**D : All option are correct**

**Q : 26) If 1500 g of water is required to have a cement paste 1875 g of normal consistency the percentage of water is**

**A : 0.2**

**B : 0.25**

**C : 0.3**

**D : 0.35**

**Q : 27) The impurity of mixing water which affects the setting time and strength of concrete is\_**

**A : sodium sulphates**

**B : sodium chloride**

**C : sodium carbonates and bicarbonates**

**D : calcium chlorides**

**Q : 28) Inert material of a cement concrete mix is \_\_\_\_\_.**

**A : Water**

**B : Cement**

**C : Aggregate**

**D : None of these**

**Q : 29) The datum temperature for maturity by Plowman, is-**

**A : 23°C**

**B : 0°**

**C : -5.6°C**

**D : -11.7°**

**Q : 30) Which of the below is an example of plasticizer ?**

**A : Hydroxylated carboxylic acid**

**B : Flouro-silicate**

**C : Gypsum**

**D : Surkhi**

**Q : 31) Which of the following statement is false?**

**A : Workability of the concrete mix decreases with an increase in the moisture content.**

**B : Concrete for which preliminary tests are conducted, is called controlled concrete.**

**C : Bulking of sand depends upon the fineness of grains.**

**D : All options are correct**

**Q : 32) The operation of removing humps and hollows of uniform concrete surface is known as\_\_\_\_\_.**

**A : Floating**

**B : Screeding**

**C : Troweling**

**D : Finishing**

**Q : 33) In a slump test, each layer of concrete is compacted by steel rod 60 cm long and of 16 mm diameter for**

**A : 20 times**

**B : 25 times**

**C : 30 times**

**D : 40 times**

**Q : 34) The shuttering of hall measuring  $4\text{m} \times 5\text{m} \times$  can be removed after :**

**A : 5 days**

**B : 7 days**

**C : 10 days**

**D : 14 days**

**Q : 35) For compacting plain concrete road surface o thickness less than 20 cm, we use**

**A : Internal vibrator**

**B : Screed vibrator**

**C : From vibrator**

**D : None of these**

**Q : 36) How many types of chemical admixture are there?**

**A : 2**

**B : 3**

**C : 4**

**D : 5**

**Q : 37) Which is the best method for curing of concrete flat surfaces/**

**A : Spraying water**

**B : Placing wet gummy bags**

**C : Stagnating water**

**D : None of these**

**Q : 38) Compaction factor for heavily reinforced section with vibration is:**

**A : 0.75**

**B : 0.75 - 0.85**

**C : 0.85 - 0.92**

**D : > 0.92**

**Q : 39) Which of the following statements is/ are true?**

**A : The diameter of pipe line used for transportation of concrete by pumps does not exceed 30 cm.**

**B : The slump of the concrete to be pumped, should not be less than 5 cm and more than 8 cm.**

**C : The water cement ratio of concrete to be pumped is kept between 0.5 to 0.65**

**D : All of these**

**Q : 40) What is the ratio (approximate) of 7 days and 28 days strength of cement concrete**

**A : 0.45**

**B : 0.65**

**C : 0.95**

**D : 1.15**

**Q : 41) The accumulation of water on outer surface of concrete is**

**A : Transpiration**

**B : Blending**

**C : Guttation**

**D : Ponding**

**Q : 42) Sand requiring a high water cement ratio, belongs to**

**A : Zone I**

**B : Zone II**

**C : Zone III**

**D : Zone IV**

**Q : 43) Which of the following statements is true?**

**Impermeability is a property of fresh concrete**

**Impermeability is a not property of fresh concrete**

**Impermeability is nothing to do with concrete at all**

**A : Only A**

**B : Only B**

**C : Only C**

**D : None of these**

**Q : 44) How many types of machine mixes of concrete are available?**

**A : 2**

**B : 5**

**C : 6**

**D : 3**

**Q : 45) The dynamic modulus of elasticity of sample of concrete is compared in \_\_\_\_\_.**

**A : Compressive test**

**B : Split test**

**C : Tension test**

**D : Ultrasonic pulse velocity test**

**Q : 46) In small works, concrete is transported using**

**A : Conveyor belts**

**B : Pumps**

**C : Pans**

**D : Buckets**

**Q : 47) \_\_\_\_\_ are used to press mortar and spread it uniformly.**

**A : Trowel**

**B : Aluminium rod**

**C : Floats**

**D : Brush**

**Q : 48) If the size of specimen used to test the compressive strength of concrete will**

**A : Decrease**

**B : Do not affected**

**C : First decreases then increases**

**D : Increases**

**Q : 49) Workability of concrete for a given water content is good if the aggregate are**

**A : Rounded aggregate**

**B : Irregular aggregate**

**C : Angular aggregate**

**D : Flaky aggregate**

**Q : 50) steam curing of concrete is adopted for**

**A : Precast structure**

**B : columns**

**C : Beams**

**D : Walls**



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