

# SSC JE PRE 2021

## LIVE ONLINE CLASSES



START DATE

**14<sup>th</sup>**  
JUNE 2022



DURATION

**300**  
HOURS



VALIDITY

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# CIVIL ENGINEERING



# DDA JE 2022

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# **CIVIL ENGINEERING**

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**Q : 1) The Minimum grade of concrete is to be used in reinforced concrete as per (IS 456:1978)**

**A : M15**

**B : M20**

**C : M10**

**D : M25**

**Q : 2) The concrete having slump of 6.5 cm is said to be**

**A : Dry**

**B : Earth moist**

**C : Semi plastic**

**D : Plastic**



**Q : 3) While compacting the concrete by a mechanical vibrator, the slump should not exceed:**

**A : 2.5 cm**

**B : 5.0 cm**

**C : 7.5 cm**

**D : 10.0 cm**

**Q : 4) Concrete is unsuitable for compaction by vibrator if it is:**

**A : Dry**

**B : Earth moist**

**C : Semi-plastic**

**D : Plastic**



**Q : 5) The operation of removing humps and hollows of uniform concrete surface is known as :**

**A : Floating**

**B : Screeding**

**C : Troweling**

**D : Finishing**

**Q : 6) The static modulus of elasticity ( $E_c$ ) of concrete for short term loading may be derived as:**

**A :  $E_c = 4800 \sqrt{f_{ck}}$**

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

**C :  $E_c = 5200 \sqrt{f_{ck}}$**

**D :  $E_c = 5500 \sqrt{f_{ck}}$**



**Q : 7) Admixtures which causes early setting and hardening of concrete are called :**

**A : Air entraining agents**

**B : Workability admixture**

**C : Accelerators**

**D : Retarders**

**Q : 8) Segregation in the concrete occurs when**

**A : Cement gets separated from mixture due to excess water**

**B : Cement fails to give adequate binding quality**

**C : Water is driven out of concrete at a faster rate**

**D : Coarse aggregate tries separate out from the finer material.**



**Q : 9) In concrete, while hand mixing is adopted, excess cement to be added is:**

**A : 4%**

**B : 10%**

**C : 14%**

**D : 20%**

**Q : 10) Poisson's ratio of cement concrete is**

**A : 0.28**

**B : 0.50**

**C : 0.40**

**D : 0.15**

**Q : 11) Poisson's ratio of cement concrete is:**

**A : 0.28**

**B : 0.50**

**C : 0.40**

**D : 0.15**



**Q : 12) Minimum number of test specimens required for finding the compressive strength of concrete are:**

**A : 3**

**B : 5**

**C : 6**

**D : 9**

**Q : 13) In order to have segregation in concrete dropping height should not be less than \_\_\_\_\_**

**A : 25 cm**

**B : 50 cm**

**C : 100 cm**

**D : 250 cm**

**Q : 14) The minimum quantity of cement content that is needed in 1 m<sup>3</sup> of a reinforced concrete which is not directly exposed to weather is about in kg:**

**A : 200**

**B : 250**

**C : 300**

**D : 350**



**Q : 15) The process of proper and accurate measurement of concrete ingredients for uniformity of proportion is known as:**

**A : Batching**

**B : Grading**

**C : Mixing**

**D : None of these**

**Q : 16) 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 : 17) The top diameter, bottom diameter and the height of a slump mould are \_\_\_\_\_**

**A : 10 cm, 20 cm, 30 cm**

**B : 20 cm, 30 cm, 20 cm**

**C : 20 cm, 10 cm, 30 cm**

**D : 20 cm, 30 cm, 10 cm**



**Q : 18) Curing \_\_\_\_\_**

**A : Reduces the shrinkage of concrete**

**B : Preserves the properties of concrete**

**C : Prevents the loss of water by evaporation**

**D : All options are correct**

**Q : 19) Under normal conditions using ordinary cement, the period of removal of the form work, is-**

**A : 7 days for beam soffits**

**B : 14 days for bottom slabs of spans 4.6 m and more**

**C : 21 days for bottom beams over 6 m spans**

**D : All options are correct**

**Q : 20) If  $x$ ,  $y$  and  $z$  are fineness moduli of coarse, fine and combined aggregates, the percentage ( $P$ ) of fine aggregates to combined aggregate is**

**I.  $P = \frac{z - x}{z - y} \times 100$**

**II.  $P = \frac{x - z}{z - y} \times 100$**

**III.  $P = \frac{x - z}{z + y} \times 100$**

**IV.  $P = \frac{x + z}{z - y} \times 100$**

**A : I only**

**C : III only**

**B : II only**

**D : IV only**



**Q : 21) Transport of concrete by pumps, is done for a distance of**

**A : 100 m**

**B : 200 m**

**C : 300 m**

**D : 400 m**

**Q : 22) Which of the following represents the correct expression for maturity (m) of the concrete sample?**

**A :  $M = \sum(\text{Time} \times \text{Temperature})$**

**B :  $M = \sum \left( \frac{\text{Time}}{\text{Temperature}} \right)$**

**C :  $M = \sum \left( \sqrt{\frac{\text{Time}}{\text{Temperature}}} \right)$**

**D :  $M = \sum(\text{Time} + \text{temperature})$**

**Q : 23) This main object of compaction of concrete is:**

**A : To eliminate air holes**

**B : To achieve maximum density**

**C : To provide intimate contact between the concrete and embedded materials**

**D : All option are correct**

**Q : 24) 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 : 25) How many types of chemical admixture are there?**

**A : 2**

**B : 3**

**C : 4**

**D : 5**

**Q : 26) If the internal dimensions of a ware house are 15 m × 5.6 m and the maximum height of piles is 2.70 m, then what is the maximum number of bags to be stored in two piles?**

**A : 1500**

**B : 2000**

**C : 2200**

**D : 3000**

**Q : 27) How many components are mainly used to prepare concrete?**

**A : 5**

**B : 3**

**C : 2**

**D : 4**

**Q : 28) How many types of machine mixes of concrete are available?**

**A : 2**

**B : 5**

**C : 6**

**D : 3**

**Q : 29) The result of Vee-Bee test is expressed in terms of**

**A : S**

**B : m**

**C :  $\text{N/mm}^2$**

**D : kg**



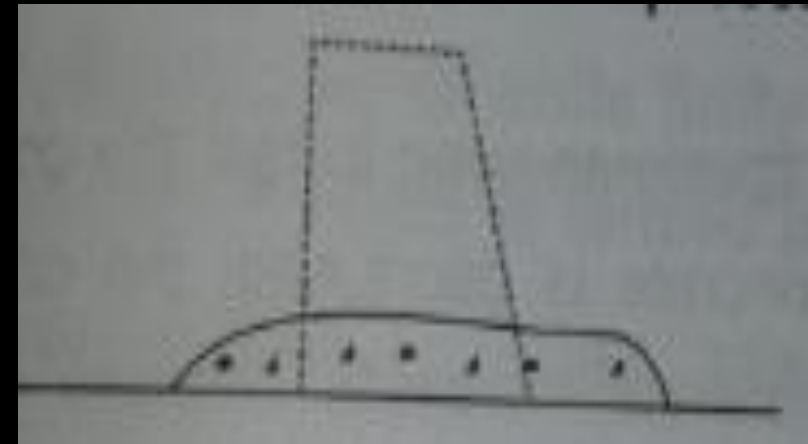
**Q : 30) The figure given below represents a**

**A : Low slump of concrete**

**B : Normal slump of concrete**

**C : Shear slump of concrete**

**D : Collapse slump of concrete**



**Q : 31) Workability of concrete mix with low water cement ratio is determined by**

**A : Tensile strength test**

**B : Slump test**

**C : Compaction factor test**

**D : Flexure strength test**

**Q : 32) Deleterious substances in aggregate are undesirable because they may**

**A : Affect the strength workability and long term performance of concrete**

**B : Have intrinsic weakness, softness and fineness**

**C : Interfere with the chemical reaction of hydration**

**D : All option is correct**

**Q : 33) Which of the following is the main composition of granite ?**

**A : Quartz, feldspar and mica**

**B : Quartz and lime**

**C : Quartz and silica**

**D : Silica, lime and alumina**

**Q : 34) Which one of the following metamorphic rocks has more weathering resistance characteristics?**

**A : Lime stone**

**B : Phyllite**

**C : Quartzite**

**D : Slate**



**Q : 35) Unit weight of brick work is about**

**A : 17-18 kN/m<sup>3</sup>**

**B : 18-19 kN/m<sup>3</sup>**

**C : 19-20 kN/m<sup>3</sup>**

**D : 20-21 kN/m<sup>3</sup>**

**Q : 36) A pug mill is used for**

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**A : Softening brick earth**

**B : Moulding brick earth**

**C : Tempering brick earth**

**D : Providing brick earth**

**Q : 37) What is the thickness (inches) of the one brick wall made up of traditional brick?**

**A : 9**

**B : 10**

**C : 18**

**D : 20**

**Q : 38) Select cement out of the following which may be used in mass concrete construction?**

- I. Low heat Portland cement**
- II. Portland blast furnace slag cement**
- III. Portland pozzolana cement**
- IV. Rapid hardening Portland cement**

**The correct answer is**

- A : Only I**
- B : I and II**
- C : I, II and III**
- D : All**

**Q : 39) Find the wrong statement:**

**A : Le chatelier's apparatus we**

**B : Estimate expansion potential of  
cement**

**C : Estimate presence of free lime in  
cement**

**D : Adopt 0.78 times the standard  
consistency of water**





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