

## SSC JUNIOR ENGINEER EXAM PAPER - 2017 "HELD ON 22 JAN 2018" MORNING SHIFT (CIVIL ENGINEERING)

1. Which of the following represent the crushing strength (MPa) for the good quality stone that are used in the construction of buildings?  
(a) Less than 20 (b) 20 to 60  
(c) 60 to 80 (d) Greater than 100

**Correct Answer: Greater than 100**

2. Which of the following is examined to determine the age of timber?  
(a) Annular ring (b) Sapwood  
(c) Pith (d) Timber defects

**Correct Answer: Annular ring**

3. Which of the following is determined with the help of Le Chatelier's device?  
(a) Abrasion resistance  
(b) Chemical resistance  
(c) Soundness  
(d) Strength

**Correct Answer: Soundness**

4. The type of mortar which is used for the construction works carried out in water-logged area is \_\_\_\_\_.  
(a) cement mortar  
(b) loose mortar  
(c) mortar of very low consistency  
(d) mortar having high w/c ratio

**Correct Answer: cement mortar**

5. For M 25 grade concrete, the split tensile strength in terms of percentage of its compressive strength is \_\_\_\_\_.  
(a) 7 to 11% (b) 12 to 28%  
(c) 28 to 38% (d) 38 to 48%

**Correct Answer: 7 to 11%**

6. Distempers are generally used to coat \_\_\_\_\_.  
(a) compound wall  
(b) external concrete surfaces  
(c) interior surface which are not exposed to environment  
(d) wood works

**Correct Answer: interior surface which are not exposed to environment**

7. Which of the following is commonly used as retarder in cement?  
(a) Calcium sulphate (b) Gypsum  
(c) Potassium carbonate (d) Sodium chloride

**Correct Answer: Gypsum**

8. In the process of hydration of OPC, to complete all chemical reaction, the water requirement (expressed as the percentage of cement) is \_\_\_\_\_.  
(a) 5 to 8% (b) 8 to 16%  
(c) 20 to 25% (d) 35 to 45%

**Correct Answer: 20 to 25%**

9. The slump test is performed to check the \_\_\_\_\_.  
(a) presence of water in cement  
(b) ratio of concrete ingredients  
(c) temperature resistance  
(d) workability of concrete

**Correct Answer: workability of concrete**

10. The reason behind the low expansion and shrinkage of the plywood is \_\_\_\_\_.  
(a) plies are placed at the right angles with each other  
(b) they are glued under the high pressure  
(c) they are held in the position with the help of adhesives  
(d) they are prepared with the help of veneers

**Correct Answer: plies are placed at the right angles with each other**

11. Which one of the following method is used for the approximate estimation?  
(a) Both central line and short wall and long wall method  
(b) Central line method  
(c) Plinth area method  
(d) Short wall and long wall method

**Correct Answer: Plinth area method**

12. Accuracy in the measurement of the thickness of the slab or sectional dimension of column and beam (in centimetre) should be \_\_\_\_\_.  
(a) 0.5 (b) 1  
(c) 5 (d) 10

**Correct Answer: 0.5**

13. Deduction at T-junction of the wall for total length of the central line is \_\_\_\_\_.  
(a) half of thickness of wall  
(b) no deduction  
(c) thickness of wall  
(d) twice of the thickness of wall

**Correct Answer: half of thickness of wall**

# Junior Engineer Exam Paper

**S Marginson**



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