

- Q.23 Write the functions of a sealant. (CO2)  
 Q.24 Write a short note on Guniting. (CO2)  
 Q.25 Describe the purpose of identification of defects in buildings. (CO3)  
 Q.26 Write a short note on carbonation in concrete. (CO3)  
 Q.27 What type of defects can be expected in interior wooden works due to dampness? (CO4)  
 Q.28 Describe the electrical method of repair of DPC against rising dampness. (CO4)  
 Q.29 List common defects in floors. (CO5)  
 Q.30 Describe special features of paint repair. (CO5)  
 Q.31 Write the steps to carry out the repair treatment for sealing of joints (CO6)  
 Q.32 Write a short note on termite control. (CO6)  
 Q.33 Write a short note on repair of drainage pipe of a bathroom. (CO7)  
 Q.34 How the masonry water tanks in buildings can be repaired against leakage. (CO7)  
 Q.35 Write a short note on cleaning of clogged drains. (CO7)

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)  
 Q.36 Explain the importance of NDT in building material assessment. (CO3)  
 Q.37 Explain the process of repair of water proofing system in wet areas. (CO4)  
 Q.38 a) List various chemical solutions for treating efflorescence. (CO3)  
 b) Write a short note on dusting of floors. (CO6)

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### 6th Sem / Branch : Architectural Assistantship Sub. : Building Maintenance

Time : 3Hrs.

M.M. : 100

#### SECTION-A

- Note:** Multiple choice questions. All questions are compulsory (10x1=10)  
 Q.1 The gradual disintegration on account of any destructive action from aggressive waters and soils, exposure to weathering agents and relative movement is called \_\_\_\_\_. (CO3)  
 a) Corrective maintenance  
 b) Building maintenance  
 c) Deterioration  
 d) Annual Maintenance  
 Q.2 Excessive bending and eccentric loading in columns leads to \_\_\_\_\_. (CO3)  
 a) Buckling of column  
 b) Increase the bearing capacity of column  
 c) Corrosion of steel reinforcement  
 d) None of the above  
 Q.3 The final hole diameter should be \_\_\_\_\_ larger than the dowel diameter if epoxy bonding agents are used. (CO5)  
 a) 1 mm to 1.5 mm      b) 2 mm to 2.5 mm  
 c) 3 mm to 6 mm      d) 6.5 mm to 7 mm  
 Q.4 The building maintenance is the act of maintaining the building in its \_\_\_\_\_. (CO1)  
 a) Unserviceable condition

- b) Deteriorated condition  
c) Serviceable condition  
d) None of these
- Q.5 The deposition of mineral scale in vessels and pipes in which lime and magnesium bearing water is heated or conveyed is called \_\_\_\_\_. (CO7)  
a) Sludging                      b) Furring  
c) Efflorescence              d) Scaling
- Q.6 The \_\_\_\_\_ length of the dowel is fixed to the concrete by using a bonding matrix. (CO3)  
a) 1/4th                              b) 1/2  
c) 3/4 th                             d) Full or Entire
- Q.7 Rebound hammer is used to test the \_\_\_\_\_. (CO3)  
a) Tensile strength of concrete  
b) Workability of concrete  
c) Turbidity of water  
d) Compressive Strength of concrete
- Q.8 \_\_\_\_\_ ton of steel is lost every 14 second due to corrosion alone in RCC in India. (CO4)  
a) 0.25                              b) 0.50  
c) 1.00                              d) 1.25
- Q.9 The air bubbles trapped at the surface of cast-in-situ form concrete during placement and consolidation. (CO3)  
a) Bug holes                      b) Bleeding  
c) Segregation                d) None of these
- Q.10 The property of a structure to give a satisfactory performance and service for the design life with minimum maintenance is called \_\_\_\_\_. (CO1)  
a) Durability of structure  
b) Deterioration of structure  
c) Collapse of building  
d) None of these

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## SECTION-B

**Note:** Objective type questions. All questions are compulsory.

(10x1=10)

- Q.11 The depth of carbonation \_\_\_\_\_ with age. (CO5)
- Q.12 Electrolytic corrosion is due to contact between a \_\_\_\_\_ and non-metal. (CO4)
- Q.13 The narrow gap provided for accommodations sufficient movement of pipes is called \_\_\_\_\_. (CO7)
- Q.14 \_\_\_\_\_ should not be placed on exterior slabs on grade in climates where freezing and thawing occur. (CO3)
- Q.15 A flat room is \_\_\_\_\_ prone to leakage as it undergoes movements due to variation in temperature, moisture, loading or other causes. (CO2)
- Q.16 Trowel applied technique can be used for horizontal, vertical or overhead repair areas which are less than \_\_\_\_\_ mm deep with little or no reinforcing steel. (CO5)
- Q.17 In case of physical method of repairing and replacing DPC consists of making saw cuts in stages of \_\_\_\_\_ mm lengths just above DPC. (CO4)
- Q.18 The outlet from the tanks should always be provided with anti-syphonage pipe to avoid \_\_\_\_\_. (CO7)
- Q.19 \_\_\_\_\_ is the act of maintaining the building in serviceable conditions. (CO1)
- Q.20 A good trap should normally run for \_\_\_\_\_ lakh operations of turning on and turning off. (CO7)

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write any five objectives of maintenance. (CO1)
- Q.22 Write the importance of repair and maintenance of buildings. (CO1)

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