

- Q.24 How faulty design and construction lead to deterioration of buildings. (CO2)
- Q.25 List the factors governing choice of construction materials. (CO2)
- Q.26 What is non-destructive testing? What are the salient features of non-destructive testing? (CO3)
- Q.27 List different sources of information for the investigation of defects in buildings. (CO3)
- Q.28 What are preliminary investigations related to building deterioration? (CO3)
- Q.29 Explain any five objectives of the investigation of defects in buildings? (CO3)
- Q.30 What are various causes of inward bulging of walls of basement? (CO4)
- Q.31 What are the causes of leaking joints in water pipes? (CO4)
- Q.32 Describe various water proofing materials used for roofs? (CO5)
- Q.33 What are different methods of surface preparation for repair work? (CO6)
- Q.34 What is stitching of cracks? (CO6)
- Q.35 What are the various methods of crack repair in concrete. (CO6)

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain any ten causes of defects in building. (CO4)
- Q.37 Describe various environmental factors responsible for deterioration of Buildings. (CO2)
- Q.38 Explain various concrete placement techniques. (CO6)

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### 6th Sem / Civil, Brick Tech., Constr. Mgmt. Subject:- Repair and Maintenance of Buildings

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Maintenance activities undertaken after the defects and damage have occurred in the structure (CO1)
- Remedial maintenance
  - Special maintenance
  - Preventive maintenance
  - Routine maintenance
- Q.2 Which type of maintenance is fixed time interval (CO1)
- Emergency maintenance
  - Preventive maintenance
  - Fixed time maintenance
  - Routine maintenance
- Q.3 Which of the following environmental factors causes deterioration in building (CO2)
- Atmospheric Moisture
  - Temperature effect
  - Pollution
  - All of these
- Q.4 The deposition of mineral scale in vessels and pipes carrying heated water is called (CO2)

- a) Indicated the wall is broken  
 b) Furring  
 c) Indicates excessive moisture  
 d) Absorbs moisture trapped in the paint
- Q.5 Rebound hammer is used for (CO3)  
 a) Carbonation  
 b) Disintegration  
 c) Compressive strength of concrete  
 d) Leaching
- Q.6 Ultrasonic pulse velocity test is a (CO3)  
 a) NDT                                      b) PDT  
 c) Permeability                              d) All of these
- Q.7 Freezing and thawing results in (CO4)  
 a) Shoring  
 b) Carbonation  
 c) Disintegration of foundation  
 d) None of these
- Q.8 Rebar Primer are also called (CO5)  
 a) Curing                                      b) Anti corrosion coating  
 c) Both a and b                              d) None of these
- Q.9 Thickness of polymer modified cementitious mortars is (CO5)  
 a) 10mm                                      b) 5-9mm  
 c) 5mm                                      d) 12-15mm
- Q.10 The air bubbles trapped at the surface at cast-in-situ form concrete during placement and construction. (CO6)  
 a) Form tie holes                              b) big holes  
 c) Bleeding                                      d) Guniting

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## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Rate of deterioration depends upon \_\_\_\_\_ capability of materials. (CO2)
- Q.12 Building maintenance is the act of maintaining the buildings in \_\_\_\_\_ conditions. (CO2)
- Q.13 Atmospheric moisture can cause \_\_\_\_\_ of surfaces. (CO2)
- Q.14 The depth of carbonation \_\_\_\_\_ with age. (CO3)
- Q.15 During preliminary investigation visual inspections are carried out \_\_\_\_\_ is collected from various sources. (CO3)
- Q.16 Differential settlement of foundation is the main cause of \_\_\_\_\_ in walls. (CO4)
- Q.17 Dampness causes \_\_\_\_\_ on different surfaces of buildings. (CO4)
- Q.18 INP stands for \_\_\_\_\_. (CO5)
- Q.19 A flat roof is \_\_\_\_\_ prone to leakage as it undergoes movements due to variation in temperature, moisture, loading or other causes. (CO6)
- Q.20 Joints are incorporated in buildings for the purpose of accommodating \_\_\_\_\_ movements in components. (CO6)

## 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 a short note on preventive maintenance. (CO1)
- Q.23 List the factors which result into poor workmanship. (CO2)

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