

- Q.24 How faculty 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

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)