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180755A

**5th Sem. / Civil, Brick Tech., Constr. Mgmt.**  
**Subject : Repair & Maintenance of Buildings**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 Preventive maintenance of concrete structure enhances its
- a) Service ability and lifespan
  - b) Shrinkage
  - c) Span
  - d) Crack
- Q.2 Good quality concrete must be
- a) Impermeable
  - b) Cracked
  - c) Dry on surface not inside
  - d) Thermal shrinkage
- Q.3 DPC stands for
- a) Dry pavement concrete
  - b) Damp proof course
  - c) Dry Course
  - d) Damp pavement

- Q.4 Most Common defect in floor roof is
- a) Leakage
  - b) Loading
  - c) Both A & B
  - d) None of the above
- Q.5 Which is the defect in floors
- a) Putting
  - b) Spalling of joints
  - c) Cracking
  - d) All of these
- Q.6 Improper mixing and compaction of concrete lead to
- a) Large voids
  - b) Cracks
  - c) Dense concrete
  - d) Both A & C
- Q.7 Which of the following is method of surface protection
- a) Drying
  - b) Spraying water
  - c) Vacuum cleaning
  - d) None of these
- Q.8 INP Stands for
- a) Interpenetrating polymer network
  - b) Inter network
  - c) Network
  - d) None of these
- Q.9 Which one of following is special concrete
- a) Polymer impregnated concrete
  - b) Fiber-reinforced concrete
  - c) Both A & B
  - d) None of these
- Q.10 Which is ideal method of curing
- a) Water spray
  - b) Sand
  - c) Aggregate
  - d) None of the above

### Section-B

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

- Q.11 Define maintenance.
- Q.12 What is emergency maintenance.
- Q.13 Define Remedial maintenance.
- Q.14 Efflorescence in brick is caused due to.
- Q.15 Define foundation.
- Q.16 What is building defect.
- Q.17 Define Dampness.
- Q.18 Define super structure.
- Q.19 What is fading.
- Q.20 Define blooming.

### Section-C

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

- Q.21 What are various cause of defect in building.
- Q.22 List the main component of building.
- Q.23 State the factor affects Durability of concrete.
- Q.24 What are basic property of good repair material.
- Q.25 Write short note on IPN.
- Q.26 What are different method of surface preparation for repair work.
- Q.27 What are common technique for repair of concrete in building.

- Q.28 Write short note on preventive maintenance.
- Q.29 What are factors govern serviceable life of a building.
- Q.30 Explain form and pump technique.
- Q.31 Explain rebound hammer test with Diagram.
- Q.32 Enlist any five objectives of the investigation of defects in building.
- Q.33 Write a short note on the mechanism of deterioration in building.
- Q.34 Enlist any five factors responsible for painting defects.
- Q.35 Describe various environment factor responsible for deterioration of buildings.

### Section-D

**Note: Long answer questions. Attempt any two question out of three Questions. (2x10=20)**

- Q.36 Discuss different methods of water proofing for flat roofs.
- Q.37 Explain sealant and write different type of solvents.
- Q.38 What is grouting. Explain various technique for grouting in repair work.