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**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

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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.