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

Time : 3Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 Acidic groundwater can cause \_\_\_\_\_ of concrete  
a) Disintegration      b) No Damage  
c) Spalling      d) None of these
- Q.2 Dry rot is most common defect in  
a) Timber      b) steel  
c) Concrete      d) brick
- Q.3 Atmospheric moisture can cause \_\_\_\_\_ of surface  
a) Dry      b) Spalling  
c) concrete      d) none of the above
- Q.4 What is most widely used plastic material in building  
a) PBN      b) Prop  
c) PVC      d) None of the above
- Q.5 Permeable concrete leads to corrosion of \_\_\_\_\_ reinforcement.  
a) Pozzolana      b) Timber  
c) Steel      d) Concrete

- Q.6 NDT stands for \_\_\_\_\_  
a) Non Destructive testing  
b) Natural Cracks  
c) Non Dense Test  
d) None of the above
- Q.7 Which of the following is a method of Non-destructive test  
a) split tensile      b) Rebound hammer  
c) Briquette      d) None of these
- Q.8 Which one is part of the building above ground level  
a) sub structure      b) Foundation  
c) super structure      d) None of these
- Q.9 Ponding occur due to blockage of \_\_\_\_\_ system  
a) Drainage system      b) Drying system  
c) Both A and B      d) None of these
- Q.10 In which of the following method plastic cone is used  
a) bug hole      b) Honey Comb  
c) From tie holes      d) none of the above

**SECTION-B**

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

- Q.11 What is the full form of NDT  
Q.12 Write type of rebar primer  
Q.13 Write method of treatment for damaged DPC

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- Q.14 List material that must be removed before starting building repair
- Q.15 Name any two method of underpinning
- Q.16 Routine maintenance is also known as \_\_\_\_\_?
- Q.17 Specification conditions and use of structure decide the scale of Preventive maintenance. State T/F
- Q.18 Define Routine maintenance.
- Q.19 Define toothsing
- Q.20 Give two causes of Dampness in walls.

### SECTION-C

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

- Q.21 List various basement defects in the building
- Q.22 What are the causes of efflorescence
- Q.23 What are the causes of rising dampness through DPC
- Q.24 Explain protective coating with examples.
- Q.25 What is Grout? Enlist any three desirable properties of grout material
- Q.26 Define durability? Enlist any three factors affecting durability.
- Q.27 Write short Notes on Shotcreting
- Q.28 What are the different methods involved in the treatment of dampness
- Q.29 Why maintenance is necessary ? Enlist any three objective of Maintenance.

- Q.30 Write short notes in routine maintenance.
- Q.31 Define Ultrasonic pulse velocity test and concrete core test
- Q.32 List the non destructive test and define any two in detail.
- Q.33 Write down any five objective of the investigation of defects.
- Q.34 What is the use of plastic in building construction?  
Describe common defects observed in plastics
- Q.35 How fire Hazards can cause the deterioration of a building? How they can be minimized.

### SECTION-D

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

- Q.36 What are the different surface defects of concrete?  
How these defects can be removed
- Q.37 What is corrosion and discuss various method of controlling
- Q.38 Describe various waterproofing materials used for roofs