

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What are sealants? Discuss their desirable properties and functions.
- Q.24 List five important types of repair material and explain them?
- Q.25 Describe various factors that influence the decision to carry out maintenance work.

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### 6th Sem / Civil

**Subject : Repair and Maintenance of Civil Infrastructure**

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What are the most common effects of weathering of bricks
- a) Efflorescence                      b) Spalling of surface  
c) Change in appearance              d) All of the above
- Q.2 What is the minimum moisture content required for dry rot defect in timber
- a) 15%                                      b) 20%  
c) 25%                                      d) 30%
- Q.3 If pulse velocity is greater than 4 km/s in UPV test then condition of concrete is
- a) poor                                      b) medium  
c) Good                                      d) Excellent

Q.4 Which of the following is not a main component of building.

- a) Foundation                      b) DPC
- c) Beam and column      d) Truss

Q.5 UPV stand for:

- a) ultrasonic pulse velocity
- b) ultrasonic pulse volume
- c) ultraviolet pulse velocity
- d) Ultrasonic pressure velocity

Q.6 Which of the following is not a water proffing technique.

- a) Grouting                      b) liquid memberane
- c) Modified bituminous d) Curing

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define Dampness.

Q.8 DPC stand for \_\_\_\_\_

Q.9 Describe about curing.

Q.10 Name any two methods of crack repair.

Q.11 What is grooving and sealing.

Q.12 Describe Anti Corrosion coating.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What factors govern the serviceable life of a building.

Q.14 Write note on rebound Hammer test.

Q.15 List the main causes of defects in building (Any four)

Q.16 Write a note on chemical factors causing deterioration of a building.

Q.17 What are curing compound.

Q.18 What are the causes of efflorescence?

Q.19 What are the various factors that effect the durability of concrete?

Q.20 What are concrete core test?

Q.21 What are basic properties of good repair materia?

Q.22 Write a short note on grouting.