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Roll No.

6th Sem / Branch : Civil/Brick Tech., Const. Mgmt.
Sub. : Repair and Maintenance of Building

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Majority of the maintenance problems fall in the category of (CO1)
- a) Remedial maintenance
 - b) Special maintenance
 - c) Preventive maintenance
 - d) Routine maintenance
- Q.2 Routine maintenance is also known as (CO1)
- a) Emergency maintenance
 - b) Preventive maintenance
 - c) Fixed time maintenance
 - d) Remedial maintenance
- Q.3 Rate of deterioration depends upon _____ capability of materials. (CO2)
- a) Blistering b) Resisting
 - c) Blooming d) Efflorescence
- Q.4 In masonry problems, paint blistering indicates (CO2)
- a) Indicates the wall is broken
 - b) Indicates movement with wall

- c) Indicates excessive moisture
 - d) Absorbs moisture trapped in the paint
- Q.5 Breaking of the concrete pieces from the reinforcement is called (CO3)
- a) Spalling b) NDT
 - c) Leaching d) Cracking
- Q.6 Removal of soluble matter from brickwork is called (CO3)
- a) Scaling b) Spalling
 - c) Leaching d) Rusting
- Q.7 Main causes of dampness is due to (CO4)
- a) Shoring b) Spalling
 - c) Clogging d) Absence of DPC
- Q.8 Anti corrosion coatings are also called (CO5)
- a) Curing b) Rebar primer
 - c) Both A and B d) None of these
- Q.9 Most commonly used adhesives in repair work are (CO5)
- a) Solvent free adhesives
 - b) Waterborne adhesives
 - c) Both A and B
 - d) None of these
- Q.10 Which of the following are used as a sealant in repairing work? (CO6)
- a) Bitumen sealants
 - b) Polysulphide sealants
 - c) Sealing strips
 - d) All of the above

SECTION-B

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

- Q.11 The maintenance operation done before the defects occurred or damage developed in structure is called _____. (CO1)
- Q.12 Plastics creep under _____. (CO2)
- Q.13 Change in temperature and seepage of _____ are the major causes of deterioration in concrete. (CO2)
- Q.14 NDT stands for _____. (CO3)
- Q.15 Dampness causes _____ on different surfaces of buildings. (CO4)
- Q.16 The main cause of spalling in flat roof is _____ to reinforcement. (CO4)
- Q.17 INP stands for _____. (CO5)
- Q.18 A good repair material should possess good _____ and bond strength with existing substrate. (CO5)
- Q.19 A good quality concrete must be _____. (CO6)
- Q.20 Contraction of floor result in _____. (CO6)

SECTION-C

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

- Q.21 Why maintenance of structure is necessary? (CO1)
- Q.22 What is remedial maintenance? What are the steps involved in the process of remedial maintenance. (CO1)
- Q.23 Write a short note on deterioration in buildings. (CO2)

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- Q.24 List the various factors causing deterioration. (CO2)
- Q.25 What are the various factors that effect the durability of concrete? (CO2)
- Q.26 What are the objectives of the investigation of defects in building? (CO3)
- Q.27 Define investigation and diagnosis. (CO3)
- Q.28 What are the steps involved in systematic approach of investigation? (CO3)
- Q.29 What are various causes of defects in new buildings? (CO4)
- Q.30 What are sealants? Discuss their desirable properties and functions. (CO5)
- Q.31 Explain compatibility of repair material. (CO5)
- Q.32 What are curing compounds? (CO5)
- Q.33 What are basic activities that must be carried out on regular basis to prevent deterioration of concrete? (CO6)
- Q.34 What is epoxy injection? (CO6)
- Q.35 Discuss types of joints in building. How are they repaired? (CO6)

SECTION-D

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

- Q.36 Explain various Non-destructive tests. (CO3)
- Q.37 Explain different techniques of concrete placement? (CO6)
- Q.38 Discuss about various methods of repair of DPC against rising dampness. (CO6)

Note : Course outcome (CO) mentioned in the question paper is for official purpose only.

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