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Syllabus

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ST 5001 Maintenance and Rehabilitation of Structures

Important 2 Mark Questions

Unit I

1. List the four the causes of distress in structure.
2. List out the methods of inspection.
3. Write the need for quality assurance.
4. What do you understand by structural appraisal?
5. Mention any two factors contributing to durability of concrete.
6. How will you differentiate active and dormant cracks?
7. What are the defects occurring on Structures due to chemical action?
8. What are the classification of distress?
9. What are the measures required to arrest decay?
10. What are the reasons for efflorescence?

Unit II

1. What are the causes of Cracks?
2. Mention the remedial measures for cracks in buildings.
3. What are the effects of vegetation in buildings?
4. How the foundation movement results in cracks?
5. What will happen to concrete if exposed to sulphates?
6. Name at least four instruments which are used for building diagnosis.
7. What are the characteristics of thermal crack?
8. How are cracks generally classified?
9. Define crazing.
10. Define Epoxy injection.

Unit III

1. What are the sources of dampness?
2. How will you arrest the moisture movement from ground?
3. What is meant by Ferrocement?
4. What are the remedial treatments for moisture penetration?
5. Explain 'rising dampness'
6. Suggest suitable materials for DPC.
7. Write short note on hygroscopic salts.
8. What are the characteristics of coatings to concrete?

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9. What is Ferro cement?

Unit IV

1. What is meant by deterioration?
2. Name the defects in welded joints.
3. Name any two possible reasons for spalling of cover concrete.
4. Identify the types of deterioration in steel structures.
5. Mention any two possible reasons for spalling of cover concrete.
6. Under what circumstances stones will discolour?
7. What are the reasons for efflorescence?
8. Name any two atmospheric agents responsible for corrosion.
9. What is the use of expansive cement?
10. What is cancer in brick work?

Unit V

1. List the advantages of underpinning.
2. Write the principle of strengthening existing structures.
3. Write the advantages of shotcrete?
4. What is meant by underpinning?
5. What are the demerits of plating technique used in strengthening RC elements?
6. How do ensure bonding between a new layer of concrete over the existing old concrete?
7. Differentiate between strengthening and rehabilitation.
8. List out some strengthening techniques.
9. How do to ensure bonding between a new layer of concrete over the existing old concrete?