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ST 5001 Maintenance and Rehabilitation of Structures

Important 13 Mark Questions

Unit I

1. Describe briefly about the defects due to climate, wear and erosion.
2. Explain in detail about assessment procedure for evaluating a damaged structure.
3. Describe briefly about Economic appraisal? Justify why Economic Appraisal should be carried out.
4. What is the significance of quality assurance in building construction? How will this be helpful to control building distress?
5. Explain the inspection techniques in detail.

Unit II

1. Describe in detail about thermal and shrinkage crack.
2. Explain briefly about epoxy injection technique for repair of cracks.
3. What are the indications of foundation settlement? Suggest suitable precautionary measures to control this problem.
4. Explain with detailed sketches, the cracking effects in concrete structures due to wear, erosion, temperature and chemicals.
5. Write in detail about thermal and shrinkage cracks, how is it eliminated in a building?

Unit III

1. Discuss briefly about repair methods of leakage of concrete structures.
2. Write short notes on application of chemical coatings to arrest moisture penetration.
3. Distinguish between Flexible and Rigid Coatings.
4. What are the causes and effects of dampness in building? Explain the remedies.
5. Explain the materials used in the various methods of repair concrete and steel structures. What are the factors in flounging it?

Unit IV

1. Discuss the reasons for discoloration and weakening of stones and explain about the biotical treatments of masonry structures.

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2. Explain the various causes for deterioration of steel structures and give preventive measures.
3. Discuss about the design and construction errors leading to deterioration of a structure.
4. Explain the various distress in concrete structure with its preventive remedial measures.
5. List out and explain the various methods for repair of concrete structures.

Unit V

1. Explain briefly about how do you increase the load carrying capacity of footing.
2. Discuss in detail about the various methods of improving strength of existing column and beam.
3. Discuss briefly about how do you improve the strength of RC beam column joint.
4. Write short notes on post stressing techniques.
5. Explain briefly about on underpinning techniques.