

School of Engineering

M.Tech Structural Engineering Semester End Examination - Jun 2024

Duration: 180 Minutes Max Marks: 100

Sem II - G1PC205T - Maintenance and Rehabilitation of Structures

General Instructions

Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	What are the equipment used in vacuum concrete method?	K1(2)
2)	Illustrate the steps carried out in structural inspection.	K2(4)
3)	Illustrate the two Inspection of building in detail.	K2(6)
4)	Identify the various steps involved in the systematic approach of	K3(9)
	investigations and the factors to be ascertained.	
5)	Construct the short notes on vacuum concrete and self-compacting	K3(9)
	concrete.	
6)	Explain in detail about thermal and shrinkage cracks.	K5(10)
7)	Examine the method of preventing corrosion in the structure.	K4(12)
8)	Discuss in detail about movement of foundation structure.	K5(15)
9)	Explain the causes of cracks and how it is minimize it?	K5(15)
10)	Define the term underpinning. Discuss any two of its methods mentioning its applicability.	K6(18)