

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Fifth Semester**Civil Engineering**CE3005 - Rehabilitation/Heritage Restoration**Regulations - 2021**Duration : 3 Hrs**Maximum : 100 Marks***PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	Distinguish between maintenance and rehabilitation.	L2	1	2
2.	Define inspection.	L1	1	2
3.	List the factors affecting the durability of concrete.	L2	2	2
4.	Write the importance of clear cover thickness in concrete.	L3	2	2
5.	List the various concretes made with industrial wastes.	L2	3	2
6.	Write down the different types of polymer concrete.	L2	3	2
7.	Name the various non-destructive tests performed on concrete.	L2	4	2
8.	What is shoring?	L1	4	2
9.	List the two preventive methods used for structures subjected to leakage.	L2	5	2
10.	Enumerate about the restoration of heritage structures.	L2	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain the steps involved in the assessment procedure for evaluating the damages and to carry out rehabilitation work.	L3	1	16
	Or			
	b Discuss in detail about various aspects of inspection.	L3	1	16
12.	a Explain the different types of cracks found in concrete structures and also write its remedial measures.	L3	2	16
	Or			
	b Describe the effects of temperature and climate on concrete structures.	L3	2	16
13.	a Explain about fibre reinforced concrete and high strength concrete with its applications.	L3	3	16
	Or			
	b Explain about high performance concrete and Geo-polymer concrete with its advantages.	L3	3	16
14.	a Explain in detail about under pinning with neat sketches.	L3	4	16
	Or			
	b Discuss the mechanism of corrosion and its preventive measures.	L3	4	16

15.	a	Explain the methods to rehabilitate the structure distressed due to fire, leakage and earthquake.	L4	5	16
		Or			
	b	Consider a three storied building affected by an earthquake with non-structural member damages, how the entire building can be rehabilitated.	L4	5	16