Register						~ - AACE11E
Number						Code: 20CE11T

I Semester Diploma Examination, Nov/Dec 2024

CONSTRUCTION MATERIALS

TIME: 3 HOURS MAX MARKS: 100 **Instructions:** (1) Answer any ONE full question from each section (2) ONE full question carries 20 marks **SECTION - I** 5 1. a) List any five requirements of good building stone. 5 b) Write Geological classification of rocks with examples. c) Define quarrying. Explain with a neat sketch the quarrying process of stones by blasting method. 10 2. a) What are the causes of deterioration of stones. Explain briefly. 10 b) List properties & uses of Asphalt. 5 c) Write any five objects of seasoning of Timber. 5 **SECTION - II** 3. a) Draw a neat sketch of Exogeneous Tree and Name its parts. 10 b) State any three properties and uses of Sand. 6 c) List any four defects in Timber. 4 4. a) With a neat sketch explain process of clamp burning of bricks. 10 b) List field tests on Brick and explain any one. 10

SECTION - III

5.	\$1	List the types of cement and explain any one type. Explain briefly Veneers.	10 5											
		Define alloy and list the types of alloys.	5											
6.	a)	State properties & uses of Sodalime glass and Borosilicate												
	b)	glass. Mention Properties and uses of Cast-Iron.	10 10											
	SECTION - IV													
7.	a)	List the different types of Tiles used in flooring. Explain												
		any one.	10											
	b)	Explain properties and uses of aerated concrete blocks.	10											
8.	a)	Explain constituents & uses of plaster of paris(POP).	10											
	b)	Explain briefly Distemper and Varnish.	6											
	c)	What is Terra-cotta?List any two uses of Terra-cotta.	4											
		SECTION - V												
9.	a)	What are the ingredients of paint? List the properties of Ideal paint.	10											
	b)	Explain the Manufacturing process of M-	270(224)											
		Sand(manufactured sand).	10											
10	. a)	What are the different types of water proofing materials.												
		Explain Cementitious coating.	10											
	b)	Write a short note on i)Gypsum ii)Geopolymer concrete.	10											

- - - -