Code No. : 5326/N

FACULTY OF ENGINEERING

B.E. 2/4 (Civil) I Semester (New) (Main) Examination, December 2011 ENGINEERING MATERIALS AND CONSTRUCTION

e: 3 Hours]	[Max. Marks: 75
Note: Answer all questions from Part A. Answer any five questions from	n Part B .
PART – A	(25 Marks)
List out different uses of stones as building materials.	3
Differentiate between load bearing and non load bearing blockers	2
What are the raw materials required for the manufacture of cement?	2
Define bulking of sand.	2
How many types of mortars are generally used in buildings?	2
List out the common defects in timber.	3
Write a short note on recycled material.	3
Enumerate the essential characteristics of an ideal flooring to be used for a of a college.	class room
Draw a neat sketch of a framework for a beam construction.	3
How do you plaster an old surface ?	2
PART – B	(50 Marks)
What do you understand by the term dressing and polishing of stone? Des different methods of dressing stones.	cribe the
a) What are the different stages of the manufacture of bricks?	4
	PART – A List out different uses of stones as building materials. Differentiate between load bearing and non load bearing blocker. What are the raw materials required for the manufacture of cement? Define bulking of sand. How many types of mortars are generally used in buildings? List out the common defects in timber. Write a short note on recycled material. Enumerate the essential characteristics of an ideal flooring to be used for a of a college. Draw a neat sketch of a framework for a beam construction. How do you plaster an old surface? PART – B What do you understand by the term dressing and polishing of stone? Des different methods of dressing stones.

b) Describe in brief the burning of bricks ins Bull-Trench Kiln. Illustrate your answer

with the help of a neat sketch.

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13. a) Describe the working of a rotary kiln with the help of neat sketch. b) What are the standard specification of portland cement? 14. Explain in detail the various tests to be conducted on coarse aggregates.

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15. What do you understand by the 'term' workability and consistency of concrete? What are the various tests to measure the workability of concrete?

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16. What do you understand by the term seasoning of timber? Explain in detail various methods of seasoning timber.

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17. a) Draw the cross section of an arch and name its parts. b) Define scaffolding. What are the different types of scaffolding? Explain with the help of neat diagrams.