A

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Tech. (Agril. Engg.)

Semester	: IV (New)	Term		II Academic	Year	1	2010-	-11
Course No.	: FS 242		•	Building Materials				
Credits	: 2(1+1)	Title	:	Dunuing				
Day & Date		Time	;	14.00 to 16.00	Total	Mar	ks :	40
Note:	 Solve ANY EIGHT questions from SECT All questions carry equal 	TION "B" a						

SECTION "A"

- Q.1 a) Describe the Geological classification of rocks in brief.
 - b) Describe the method of quarrying with hand tools.

Draw neat diagrams wherever necessary.

- Q.2 a) What are the constituents of good brick earth?b) Discuss the operation of preparation of clay for the manufacture of bricks.
- Q.3 (a) What are the important properties of cement?
 - b) Describe the field tests for cement.
- Q.4) a) What are the natural sources of sand?
 b) State the functions of sand in mortar.

2.5

- a) Define cement concrete and mention its properties.
 - b) What is meant by proportioning of concrete?
- Q.6 a) Draw a neat cross-section of an exogenous tree and show various components of it.
 - b) Explain what is meant by felling of trees.
- Q.7 a) What is the composition of plastics?
 - b) Mention the uses of plastics.
- Q.8 a) What is vulcanization of rubber? Mention its effects.
 - b) Describe the properties of rubber.
- Q.9 a) What are the characteristics of a good tile?
 - b) How are tiles manufactured?
- Q.10 a) What are the qualities of a good building stone?
 - b) Describe the process of conversion of timber.

SECTION "B"

	in the blanks. in these rocks, the calcium carbonate predominates. The bricks prepared by dipping mould in water every time are known as the bricks.
3)	The calcined product is known as the is known
4)	The sand passing through a screen with clear openings of is known
	as the gravelly sand.

).12 State True or False.

- 1) The structure of wood visible to the naked eye or at a small magnification is called the microstructure.
- The rubber which is obtained from latex or a viscous milky juice tapped from rubber trees is known as natural rubber
- 3) The process of taking out stones from natural rock beds is known as quarrying.
- The brick moulds are made longer by about 8 to 15 percent in all directions

