MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Tech. (Agril. Engg.)

Semester	: IV (New)	Term	: II	Academic Year	: 2012-13
Course No.	: FS 242	Title	: Building Materials		
Credits	: 2 (1+1)				
Day & Date	: Thursday, 25.04.2013	Time	: 14.00 to 16.00	Total Marks	: 40

Note :
1. Solve **ANY EIGHT** questions from **SECTION "A"**.
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 What are the properties and uses of rubber?

Q.2 a) How are the plastics classified?
b) What are the uses of plastics?

Q.3 a) What are the harmful constituents of cement?
b) What is mean by seasoning of timber?

Q.4 a) Describe the various defects in timber.
b) What are the qualities of good building stone?

Q.5 Discuss the geological classification of rock.

Q.6 a) State the functions of sand in mortar.
b) What are the different types of mortar?

Q.7 a) What are the compositions of good brick earth?
b) What are the harmful ingredients in brick earth?

Q.8 Write short notes on: (Any Two)
1) Qualities of timber 2) Fat Lime 3) Fire Bricks

Q.9 a) What is mean by consistency of cement?
b) Explain Thermo-Plastic in detail.

Q.10 a) What is meant by bulking of sand?
b) What is mean by "Workability"?

SECTION "B"

Q.11 Fill in the blanks.
1) Gravel is an example of _____ rock.
2) The _____ in excess makes the cement unsound.
3) The inner most central portion or core of the tree is called the _____.
4) The brick should have the crushing strength below _____ N/mm^2.

Q.12 State True or False.
1) Initial setting time of cement is 30 minutes for ordinary cement.
2) The molten or pasty rocky material is known as the magma.
3) If Iron Pyrites are present in brick earth, the bricks are crystallized.
4) The ordinary cement achieves 90% strength in 28 days.

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