Code: ME5T6FE4

III B.Tech - I Semester - Regular Examinations - November 2014

BUILDING MATERIALS AND CONSTRUCTION (MECHANICAL ENGINEERING)

Duration: 3 hours	Marks: 5x14=70
Answer any FIVE questions. All questions carry equal marks	
1. a) Explain with neat sketch	about "Hoffman's Kiln". 7 M
b) List out commonly used suitability in construction	building stones and state their 7 M
2. a) Discuss the defects in Tir	mber. 7 M
b) Write the notes on "Hydr	rate Hardening". 7 M
3. a) Illustrate different forms	of steel. 7 M
b) Define "Pigment volume importance.	concentration" and discuss its 7 M
4. a) How do you compare the acoustical material?	effectiveness of different 7 M
b) What are the requirement proofing?	ts of an ideal material for Damp 7 M

5. a) Explain the situations in which pile foundations are preferred.	7 M
b) What are the good requirements of a Foundation?	7 M
 6. a) State general principles to be kept in my mind while supervising (i) Stone work (ii) Brick work under water construction. 	7 M
b) What is the significance of bonding in brick masonr explain English bond and Flemish bond by sketches	•
7. a) Describe the constructing cement concrete flooring including its merits and demerits.	7 M
b) Discuss the various factors which require due considerable while selecting a roof covering of a building.	deration 7 M
8. a) What is Scaffolding? Mention its various componen	ts. 7 M
b) Define "Underpinning"? Under what situation the u underpinning is warranted.	se of 7 M