

II B.Tech I Semester Supplementary Examinations, May 2005
CIVIL ENGINEERING MATERIALS & CONSTRUCTION
(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What do you understand by the term "foundation"? What is the purpose of providing foundations?
(b) With the help of a dimensional sketch for a 30 cm thick wall explain "spread foundations".
2. (a) Give the broad classification of stone-masonry.
(b) With the help of neat sketches illustrate:
 - i. Random rubble masonry
 - ii. Ashlar fine.
3. (a) Name the different types of floors.
(b) Give detailed specification for laying "Mosaic flooring".
4. (a) What are the advantages of using arches as lintels?
(b) With the help of neat sketches illustrate the different types of lintels.
5. (a) Name the various methods of manufacture of bricks. With neat sketches describe any one method.
(b) What is the difference between clamp burning and Kiln burning?
6. Write short notes on:
 - (a) Dressing of stones
 - (b) precautions in blasting
7. (a) Give the constituents of lime-stone.
(b) Explain the classification of lime.
(c) Describe the field tests for cement.
8. Write short notes of any THREE of the following:
 - (a) Defects in timber
 - (b) Manufacture of tiles
 - (c) Ingredients of cement concrete
 - (d) Staircases.
