

R09**Code: 9A01305****B.Tech II Year I Semester (R09) Supplementary Examinations December 2015****BUILDING MATERIALS & CONSTRUCTION****(Civil Engineering)**

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Write about dressing of stone.
(b) What are the precautions to be taken while dressing a stone? Explain.
- 2 (a) Explain the importance of gypsum in engineering constructions.
(b) Explain the importance of Aluminium as an engineering material.
- 3 What is meant by artificial hydraulic lime? How is it manufactured?
- 4 (a) What are plywoods? Mention their advantages.
(b) State the advantages and disadvantages of timber construction.
- 5 (a) Discuss the comparative merits of various types of building units used for masonry.
(b) Define the following terms: (i) Header. (ii) Stretcher. (iii) Quoin closer.
- 6 (a) Define foundations and mention their objects
(b) Explain the loads which are to be taken into account while designing the foundations of a structure.
- 7 (a) Explain the method of laying Mangalore tiles on a pitched wooden roof.
(b) What are the purposes of ceilings? What materials are used for laying of ceilings?
- 8 (a) What are the wet areas in a building? Give the general principles of water proofing of wet areas in a building.
(b) What considerations should be taken into account for internal and external plastering? Give the specification for these for a residence.
