



Reg.No.

INTERNATIONAL CENTRE FOR APPLIED SCIENCES
(Manipal University)
II SEMESTER B.S. DEGREE EXAMINATION – APRIL/ MAY 2017
SUBJECT: BUILDING CONSTRUCTION - I (CE 122)
(BRANCH: CIVIL & ARCHITECTURE)
Wednesday, 26 April, 2017

Time: 03 Hours

Max. Marks: 100

- ✓ Answer ANY FIVE full Questions.
- ✓ Missing data, if any, may be suitably assumed

- 1A. What is Stone? Give any six general qualities of a good building stone.
1B. Explain any three classification of Timber.
1C. Write a note on tests on Brick. [8+6+6]
- 2A. Explain briefly (i) Water Cement ratio in concrete (ii) Bulking of Sand (iii) Shotcrete (iv) Tests on Bitumen.
2B. Explain any three classification of aggregates.
2C. What is cement? How it is manufactured? [8+6+6]
- 3A. What are admixtures? Give their classification and explain accelerators.
3B. Write a note on flooring materials and list any six commonly used flooring materials.
3C. Explain the properties and uses of any two non-ferrous metals. [8+6+6]
- 4A. Define Bitumen and Tar. Give any four differences among them.
4B. Explain (i) Quick lime (ii) Slaking of Lime.
4C. Write a note on tests on hardened Concrete. [8+6+6]
- 5A. Explain the various ingredients of Glass with their functions.
5B. Write a note on curing of concrete.
5C. What is concrete? Give any four primary reasons for its wide use. [8+6+6]
- 6A. Explain any four classifications of Brick.
6B. Explain self-compacting concrete.
6C. Explain any six factors affecting workability of concrete. [8+6+6]
- 7A. What is Mortar? Explain any three types of mortar.
7B. Write a note on seasoning of Timber.
7C. Explain classification of Plastics. [8+6+6]
- 8A. Write a note on tests on fresh cement.
8B. Explain the chemical properties of any four raw materials in cement.
8C. Write a note on defects in timber. [8+6+6]

