

Roll No

BE-204

B.E. I & II Semester

Examination, December 2016

**Basic Civil Engineering and
Engineering Mechanics**

Time : Three Hours

Maximum Marks : 70

- Note:* i) Answer any five questions.
ii) All questions carry equal marks.
iii) Assume suitable data if necessary.

1. a) Explain the different types of cement.
b) Explain briefly the factors that affect the workability of concrete.
2. a) Explain various types of foundations.
b) Explain the seasoning of timber.
3. a) Draw a neat sketch of Door and Window and explain its components.
b) Explain various types of test that can be conducted on brick.
4. a) Explain different types of Theodolite.
b) Explain Reciprocal levelling.
5. a) Explain survey station and its importance.
b) Explain the importance of Remote sensing in civil engineering.

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6. a) Explain the method of joints.
b) What do you mean by free diagram and force diagram?
7. a) Explain radius of gyration of any section with a neat sketch.
b) What do you mean by support reaction, explain shear force and bending moment?
8. Write short notes on (any three):
 - a) Couple
 - b) EDM method
 - c) Contour interval
 - d) Plastering
 - e) Pointing

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