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THIRD SEMESTER
SUPPLEMENTARY EXAMINATION

Roll.No-----
B.TECH [CE]
[FEB-2019]

CE-201 BASIC CIVIL ENGINEERING & APPLICATIONS

Time : 3:00 Hours

Four

Max Marks :40

Note:	Answer any two questions. All Question carry equal marks Assume suitable missing data, if any
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1. a. What are the different components of a building? Explain the same with the help of sketches wherever possible.

b. Write short notes on the following:

(i) Raft Foundation

(ii) Typical footing on a brick wall and R.C.C column giving suitable dimensions

2.a. What is meant by damp-proof construction and what are the materials used for the damp-proof construction?

b. What are the visible signs of the action of dampness in a building and what precautions are necessary to avoid the same.

3.a. What type of stone masonry will you use for

(i) Boundary Wall (ii) Parapet Wall (iii) Pier of a Bridge

b. State the general principles to be observed during the construction of brick masonry work.

4. a. Explain in detail in design mix procedure as per IS:10262.

b. Brief the importance of water-cement ration and use of superplasticisers in concrete mix design.

5. a. Describe in detail the optical properties of minerals.

b. Describe in detail the physical & chemical weathering.