

H.T.No.

--	--	--	--	--	--	--	--	--	--

Code No: CE1502

GEC-R14

I B. Tech II Semester Supplementary Examinations, December 2017

BUILDING MATERIALS AND CONSTRUCTION

(Civil Engineering)

Time: 3 Hours

Max. Marks: 60

Note: All Questions from **PART-A** are to be answered at one place.

Answer any **FOUR** questions from **PART-B**. All Questions carry equal Marks.

PART-A

6 × 2 = 12M

1. What is the composition of good brick earth?
2. List out various types of lime.
3. List the various types of rubble stone masonry.
4. Can you say the difference between lintel and Arch.
5. List any four different types of paints.
6. Define geo-membranes and geo-composites.

PART-B

4 × 12 = 48M

1. a) What are the qualities of a good building stone? Discuss them. (6M)
b) Enumerate the qualities of good bricks. (6M)
2. a) Differentiate between the quick lime and slaked lime. (6M)
b) Enumerate the laboratory tests for cement and describe any two of them. (6M)
3. a) Write about the wall having alternate stretchers and headers in each course. (6M)
b) Name the various types of Rubble masonry. Describe any one in brief the construction of walls with rubble masonry with neat sketches. (6M)
4. a) What are the factors to be considered while choosing a type of floor? (6M)
b) Compare merits and demerits of flat roofs. (6M)
5. a) Define scaffolding, importance and mention its component parts. (6M)
b) Explain briefly the terms plastering and pointing. (6M)
6. a) Discuss design criteria for concept of green building. (6M)
b) Say how geo-membranes are suited in construction field in terms of functioning and applications. (6M)
