

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S1,S2(S,FE) Examination May 2021 (2015 Scheme)

Course Code: BE101-01

Course Name: INTRODUCTION TO CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 1 mark

		Marks
1	What is the purpose of a building?	(1)
2	What is meant by quarrying of stones?	(1)
3	What is M sand?	(1)
4	What are Queen closers?	(1)
5	What is Cambium layer in a timber?	(1)
6	Give two advantages of flat roofs.	(1)

PART B

Answer all questions, each carries 5 marks

7	Draw a neat sketch and mark the components of a building.	(5)
8	What are the different classifications of bricks? Explain.	(5)
9	Differentiate between fine and coarse aggregates.	(5)
10	Draw the plan and elevation of one brick thick English bond.	(5)
11	Explain any two special timber products.	(5)
12	List the different types of roofing materials. Explain any two.	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks

13	Explain the purpose of the following structural elements: a) Towers b) Chimneys c) Retaining walls d) Silos e) Pipelines f) Dams	(6)
14	Define setting out of a building. Explain the process of setting out of a building with a neat sketch.	(6)
15	Explain any three tests conducted to ascertain the qualities of building stones?	(6)
16	What are the steps in manufacturing tiles?	(6)

Module III & IV

Answer any three full questions, each carries 6 marks

- 17 Explain the different properties of Portland cement. (6)
- 18 List the different tests done on aggregates? Explain any two. (6)
- 19 With neat sketches, explain the different types of Rubble masonry. (6)
- 20 Give a comparison for stone and brick masonry. (6)

Module V & VI

Answer any four full questions, each carries 7 marks

- 21 What is seasoning? What are the different methods of seasoning? (7)
- 22 With neat sketches, explain the defects found in timber. (7)
- 23 List down the market forms of steel. Explain any three with neat sketches. (7)
- 24 a) What are the requirements of a good floor? (3)
- b) What are the factors to be taken into the selection of roofing materials? (4)
- 25 What are pitched roofs? With neat sketches explain any three types of pitched roofs. (7)
