

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), DECEMBER 2019

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 a retaining wall?	(1)
2	List different types of roofing tiles.	(1)
3	Define fineness modulus of aggregate.	(1)
4	What is rubble masonry?	(1)
5	What are knots in timber?	(1)
6	What type of roof is preferred in areas of heavy rainfall?	(1)

PART B

Answer all questions, each carries 5 marks.

7	Explain residential buildings and educational buildings as per NBC.	(5)
8	What are the steps involved in the manufacturing of bricks?	(5)
9	What are the basic ingredients of cement?	(5)
10	Compare Brick masonry and Stone masonry	(5)
11	Write short notes on Particle Board and Hard Board.	(5)
12	What are the different flooring materials and its selection criteria?	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

13	What are the criteria for the selection of site for a residential building?	(6)
14	What are the different parts of a building? Explain with neat sketches?	(6)
15	Write the field tests on bricks.	(6)
16	Explain classification of stones.	(6)

Module III & IV

Answer any three full questions, each carries 6 marks.

17	Explain any three tests on aggregate.	(6)
18	What is cement mortar? What are its uses?	(6)
19	With neat sketches, explain the classification of Ashlar masonry.	(6)
20	Draw the plan and elevation of 1- brick wall English Bond.	(6)

Module V & VI

Answer any four full questions, each carries 7marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 Explain the manufacturing process of hard board? What are its uses and advantages? (7)
- 23 Differentiate between TMT and HYSD bars. Describe the properties of each of them in detail. (7)
- 24 What is a truss? Sketch any three types of trusses. (7)
- 25 List out the different types of floor covering materials. Explain any three types in detail. (7)
