

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION(S), MAY 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 silo?	(1)
2	What is efflorescence in bricks?	(1)
3	Define standard consistency.	(1)
4	What is dry masonry?	(1)
5	What is tor steel?	(1)
6	Define span of a roof.	(1)

PART B

Answer all questions, each carries 5 marks.

7	How buildings are classified based on fire resistance offered by buildings?	(5)
8	Describe briefly various methods of quarrying.	(5)
9	List the desirable qualities of aggregate for concrete.	(5)
10	Define the following terms with respect to brick masonry a) King closer b) Queen closer c) Bat d) Quoin header e) Course	(5)
11	What are the defects in timber?	(5)
12	What are the different roofing materials and its selection criteria?	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

13	How buildings are classified based on National Building Code?	(6)
14	What are the different parts of a building? Explain with neat sketches?	(6)
15	Explain the laboratory tests on bricks.	(6)
16	Discuss the steps involved in the manufacture of tiles.	(6)

Module III & IV

Answer any three full questions, each carries 6 marks.

17	Write the composition of ordinary cement indicating the required percentage and function of each ingredient.	(6)
18	Explain the tests to determine the flakiness index and elongation index of aggregate.	(6)

- 19 Explain the classification of stone masonry. (6)
- 20 Explain the English bond and Flemish bond in brick masonry with neat figures. (6)

Module V & VI

Answer any four full questions, each carries 7marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 Describe the manufacturing process and uses of hard board and particle board. (7)
- 23 Discuss the use and properties of mild steel, medium steel and high carbon steel. (7)
- 24 What is a truss? Sketch any three types of truss. (7)
- 25 Write short notes on (7)
- a) Terrazzo flooring
 - b) Tiled flooring

