

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech degree examinations (S), September 2020 (S1/S2 - 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	List the different types of dams?	(1)
2	Define closer and bat of a brick.	(1)
3	Define soundness of cement.	(1)
4	Differentiate between stretcher and header of a brick.	(1)
5	What is the yield strength of mild steel?	(1)
6	What is King Post truss?	(1)

PART B

Answer all questions, each carries 5 marks.

7	List any five important roles of a Civil Engineer in society.	(5)
8	What are the important tests to determine the properties of a good building stone?	(5)
9	Explain how to ascertain the grading of aggregate.	(5)
10	What are the different types of Ashlar masonry?	(5)
11	Explain the manufacturing process of particle board.	(5)
12	What are the different types of flooring material?	(5)

PART C

Module I & II

Answer any three full questions, each carries 6 marks.

13	What are the selection criteria for an industrial site?	(6)
14	Explain setting out of a building.	(6)
15	What are the major ingredients of brick earth?	(6)
16	What are the steps involved in the manufacturing of tile?	(6)

Module III & IV

Answer any three full questions, each carries 6 marks.

17	What is mortar? Explain its various functions.	(6)
18	How will you determine the aggregate impact value?	(6)

- 19 With neat sketches explain any three types of brick bonds used in masonry. (6)
- 20 Explain any three types of rubble masonry with neat sketches. (6)

Module V & VI

Answer any four full questions, each carries 7 marks.

- 21 Explain the different methods of preservation of timber. (7)
- 22 What are the various tests on timber? (7)
- 23 Discuss the use and properties of mild steel, medium steel and high carbon steel. (7)
- 24 Explain the different types of floors. (7)
- 25 What are the different types of roofs? Explain any two with figure. (7)
