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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

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	Define taxiway.	(1)
2	What is meant by dressing of stone?	(1)
3	What are the ingredients of cement mortar?	(1)
4	Define course in masonry.	(1)
5	What is mild steel?	(1)
6	Define gable roof.	(1)

PART B

Answer all questions, each carries 5 marks.

7	What is a retaining wall? What are the different types?	(5)
8	Explain any two tests on tiles.	(5)
9	What are the various field tests to assign the quality of a given pack of cement?	(5)
10	Compare Brick masonry and stone masonry	(5)
11	List the defects in timber due to improper seasoning and conversion.	(5)
12	What are the different flooring material and its selection criteria?	(5)

PART C

Module I& II

Answer any three full questions, each carries 6 marks.

13	What are the selection criteria for a dam site?	(6)
14	Write short notes on the following terms a) Plinth b) Lintel c) Sill d) Foundation	(6)
15	Explain the important properties of good bricks.	(6)
16	What is a quarry? Explain the different methods of quarrying.	(6)

Module III& IV

Answer any three full questions, each carries 6 marks.

17	Explain the desirable properties of aggregates with regards to shape, texture,	(6)
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specific gravity and bulk density.

- 18 What is meant by bulking of sand? What is the role of sand in cement mortar? (6)
- 19 Define the following in stone masonry. a) Quoin stone b) Through stone (6)
c) Facing .
- 20 Draw the plan and elevation of 1-brick wall English Bond. (6)

Module V & VI

Answer any four full questions, each carries 7 marks.

- 21 Write short note on air seasoning and water seasoning. (7)
- 22 Distinguish between particle board and hard board. (7)
- 23 What are the various preservatives used in timber? Explain the method of preservation by means of any three preservatives. (7)
- 24 Sketch and explain any three structural steel sections. (7)
- 25 What are the different flooring materials and explain factors affecting the choice of flooring materials. (7)

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