

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER B.TECH DEGREE EXAMINATION, JULY 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	List types of buildings as per National Building Code of India.	(1)
2	List any four tests to assess the quality of a building stone.	(1)
3	What are the grades of cements available in market?	(1)
4	List any four types of bonds practiced in brick masonry.	(1)
5	What is the difference between hard board and particle board?	(1)
6	List different roof covering materials.	(1)

PART B

Answer all questions, each carries 5 marks

7	Write short note on any recent infrastructure project in India.	(5)
8	Write geological classification of rocks.	(5)
9	What is the difference between initial setting time and final setting time? Write IS specification for both.	(5)
10	Compare brick masonry and stone masonry.	(5)
11	What is seasoning of timber? Explain any two methods of seasoning.	(5)
12	Draw any five structural steel sections.	(5)

PART C

Module I& II

Answer any threefull questions, each carries 6 marks

13	Explain how civil engineers are beneficial to the society.	(6)
14	a) Draw the section of a single storied residential building and mark the parts.	(4)
	b) Write the function of any four components of the building.	(2)
15	Explain any six qualities of good building stone.	(6)
16	What are the major constituents of good brick earth? Explain the function of each.	(6)

Module III& IV

Answer any threefull questions, each carries 6 marks

17	Explain the manufacturing process of cement.	(6)
18	Write any three tests to assess properties of aggregates.	(6)
19	Explain any three types of rubble masonry with neat sketches.	(6)
20	Draw the plan and elevation of two brick thick Flemish bond.	(6)

Module V& VI

Answer any fourfull questions, each carries 7marks

21	Explain with sketches any four defects in timber.	(7)
22	Explain the manufacturing process of hard board.	(7)
23	Explain any three properties of steel.	(7)
24	Explain the advantages and disadvantages of flat roof, sloping roof and shell roof.	(7)
25	What are the factors to be considered while selecting flooring materials?	(7)
