Reg No.:_____ Name:____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER B.TECH DEGREE EXAMINATION, APRIL 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		The branch of Civil Engineering dealing with flow characteristics and mechanics of water is known as	(1)		
2		Define seasoning of stones.	(1)		
3		Which are the different grades of ordinary Portland cement?	(1)		
4		Define a stretcher course.	(1)		
5		What is the carbon content in mild steel, medium carbon steel and high carbon steel?	(1)		
6		Define pitch of a roof.	(1)		
		PART B			
		Answer all questions, each carries 5 marks.			
7		Explain setting out of building.	(5)		
8		What is meant by quarrying of stones? What are the different methods of quarrying and explain any one method in detail.	(5)		
9	a)	What is meant by bulking of sand.	(2)		
	b)	State the properties of good sand.	(3)		
10		Write short note on Random Rubble masonry.	(5)		
11		What are the various defects occur in timber due to natural forces.	(5)		
12		Write the requirements of a Good roofing material.	(5)		
		PART C			
		Module I & II			
Answer any three full questions, each carries6 marks.					
13		Explain various components of a residential building. Give the functions of any three components.	(6)		
14		Classify various types of buildings on the basis of occupancy as per National Building Code of India.	(6)		
15		What are the qualities of good building bricks?	(6)		
16		Explain the manufacture of clay tiles.	(6)		
		Module III & IV			
		Answer any three full questions, each carries 6 marks.			
17	a)	What are the various steps involved in the manufacturing of Ordinary Portland	(2)		

17 a) What are the various steps involved in the manufacturing of Ordinary Portland (2) Cement.

	b)	With the help of a flow chart explain any one method for mixing raw materials	(4)
		during manufacturing of cement.	
18	a)	State the important properties of mortar.	(3)
	b)	Explain the preparation of mortar by Hand mixing.	(3)
19		What are the different types of ashlar rubble masonry	(6)
20	a)	Differentiate between English Bond and Flemish Bond.	(3)
	b)	Draw the plan and elevation of one brick wall in English Bond.	(3)
		Module V& VI	
		Answer any four full questions, each carries 7 marks.	
21		What is meant by seasoning of timber? Explain different methods of seasoning of timber.	(7)
22		Write short notes on Particle Board & Hard Board.	(7)
23		What are the various types of steel sections manufactured and marketed? Explain any three structural steel sections with neat sketch.	(7)
24	a)	What are the different types of floors?	(4)
	b)	What are the various Criteria for selecting Flooring materials?	(3)
25		What are the advantages and disadvantages of Flat roofs? Explain any two types of flat roofs.	(7)
