Reg No.:_____

Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S1 (S, FE) S2 (S) Examination February 2023 (2015 Scheme)
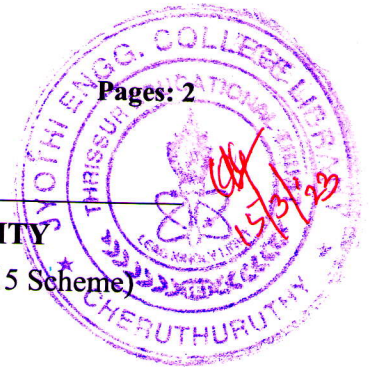
Course Code: CE100
Course Name: BASICS OF CIVIL ENGINEERING

Max. Marks: 100

Duration: 3 Hours

PART A
Answer all questions, each carries 3 marks

		Marks
1	Write short notes on educational buildings and hazardous building as per NBC	(3)
2	What are the functions of lintels in a building?	(3)
3	What are the instruments used for levelling?	(3)
4	What are the principles of surveying?	(3)
5	List different types of paint available in the market	(3)
6	Differentiate between shallow and deep foundation with the help of sketches.	(3)
7	What are the different types of roofs?	(3)
8	What are the design considerations of a ramp?	(3)
9	What are the classification of air conditioning systems?	(3)
10	Write short notes on chimneys.	(3)

PART B

Answer any eight questions, each carries 6 marks

11	Explain the relevance of civil engineering in the overall infrastructure development of a country	(6)
12	Explain different components of a building with a neat figure.	(6)
13	What are the information to be included in a site plan?	(6)
14	Explain the factors affecting orientation.	(6)
15	Explain the procedure adopted for setting out a building	(6)
16	What are the instruments used for horizontal measurement? Briefly explain	(6)
17	Write short notes on a) Electronic Distance Metre b) GPS	(6)
18	What are the grades of concrete? Explain	(6)
19	List out the type of steel commonly available in the market.	(6)
20	Explain the properties of bricks	(6)

PART C

Answer any two questions, each carries 11 marks

21 a) Draw the plan and elevation of 1 brick wall English bond   (6)

b) Explain the procedure of plastering   (5)

22 a) List and explain different flooring materials   (6)

b) Write short notes on   (5)

a)Civil engineering aspects of sound proofing

b) Sound proofing Materials

23 a) Differentiate between escalators and elevators.   (5)

b) Briefly explain the features of intelligent building   (6)

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