School of Engineering

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations - November 2024

Semester : I Course Code: CIV1008 Course Name: Basic Engineering Sciences Program : B.Tech Date: 07-11-2024 Time: 11.45am to 01.15pm Max Marks: 50 Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.		5Qx2M=10M		
1	Outline any four objectives of providing foundation.	2 Marks	L2	CO1
2	Define the following terms associated with roads (i) Camber (ii) Median.	2 Marks	L1	CO1
3	Classify the bridges based on structural action.	2 Marks	L2	CO1
4	List any four advantages of dams.	2 Marks	L1	CO1
5	Why precast concrete is also called prefabricated concrete?	2 Marks	L1	CO2

Part B

Answer ALL Questions. Each question carries 10 marks.			4QX10M=40M		
6	Discuss briefly the components of a railway track with the help of a neat sketch.	10 Marks	L2	C01	

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7 Describe the functions of various components of airport.	10 Marks	L2	CO1
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8	8a	Compare framed structure with load bearing structures.	5 Marks	L2	C01
	8b	Outline the classification of bridges based on structural action.	5 Marks	L2	C01
		Or			
9		With the help of a neat sketch, explain the types of shallow foundation.	10 Marks	L2	C01
10		Explain the water treatment process using a schematic diagram.	10 Marks	L2	C01
		Or			
11	11a	List the various sources of water.	2 Marks	L2	CO1
	11b	Discuss the functions of components of a dam.	8 Marks	L2	C01
12	12a	List any four advantages of mechanization process in	2 Marks	L1	CO2
		construction.			
	12b	Explain any two methods of pre cast building construction.	8 Marks	L2	CO2
Or					
13	13a	Outline the application of Artificial Intelligence in construction planning process.	5 Marks	L2	CO2
	13b	List the applications of robotics in construction.	5 Marks	L1	CO2