



PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 29-10-2025

Time: 02.30pm to 04.00pm

School: SOCSE/SOE	Program: B.Tech Civil Engineering	
Course Code : CIV2021	Course Name: Design Concepts of Building Services	
Semester: VII	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	35	15			

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.

5Q x 2M=10M

1	What is the need for planning and provisioning Building Services?	2 Marks	L1	C01
2	List the items classified under Mechanical System of Building Service.	2 Marks	L1	C01
3	What is a humidifier?	2 Marks	L1	C01
4	List the factors influencing choice of Building Service such as Air Conditioning.	2 Marks	L1	C01
5	What is HVAC?	2 Marks	L1	C01

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Briefly explain various types of building services	10 Marks	L2	CO1
Or					
7.	a.	What are the different types of maintenance work? Explain briefly	10 Marks	L2	CO1

8.	a.	Provision of services to a building is dependent on the occupancy and type of structure. Briefly explain the different types of building	07 Marks	L2	CO1
	b.	What are the various types / classification of air conditioners?	08 Marks	L2	CO1
Or					
9.	a.	What is Ventilation. Briefly explain how this can be provisioned including necessary equipment, if any.	07 Marks	L2	CO1
	b.	What are the principles of lighting? Briefly explain.	08 Marks	L2	CO1

10.	a.	A client who intends to build a Hospital has contacted your AEC firm. A junior engineer is unable to explain the term HVAC from your firm's brochures showcasing a previous project. Please fill in the required details so the client is aware of its need and benefits.	15 Marks	L3	CO2
Or					
11.	a.	Write short notes on lighting system and requirements for a commercial building?	15 Marks	L3	CO2