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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - NOV 2023**

Semester : Semester V - 2021

Course Code : CIV2021

Course Name : Sem V - CIV2021 - Design Concepts of Building Services

Program : B. TECH

Date : 3-NOV-2023

Time : 11:30AM - 1:00PM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. What is the need for planning and provisioning Building Services?
(CO1) [Knowledge]
2. What are the various classification of AC system?
(CO1) [Knowledge]
3. What is a humidifier?
(CO1) [Knowledge]
4. What is artificial lighting?
(CO1) [Knowledge]
5. What is protective maintenance?
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

6. Building services shall mean the provision of services in a building, which make building functional, comfortable, safe, secure and environmentally friendly. What are the various classification of building services? Briefly explain.
(CO1) [Comprehension]
7. Maintenance is required to extend the service life of a structure. As a facility manager if you are tasked with maintaining a commercial building, what would you recommend for keeping various building services operational? Also, list the types of maintenance work.
(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

8. a) How are building services classified? Please explain. [10 M]
- b) Lighting or illumination is the deliberate use of light to achieve practical or aesthetic effects in a building. How can one provision this in a high rise building? What are the different options available? [10 M]

(CO1) [Application]