Department of Architecture
Leading University; Sylhet
Mid Term Examination; Spring 2021 (Online)

Course Code: **MECH-361**   Course Title: **Building Service-I**   Course Credits: **2**

Total Marks: 30 (Written 25 + Viva 05)

Written Exam Time: 9.30 am. to 1.00 pm. (including submission of answer scripts)

[Figures in the right margin indicate marks]

PART-A
[Answer any TWO of the following questions from PART-A]

1.	a)	How Building can be defined? Identify the purpose of Building.	**03**
	b)	What things to be considered to design a smart building in the context of Building Service?	**04**
	c)	Why creative building is necessary?	**03**
2.	a)	How Cooling Load is different from Heating Load? Explain with example.	**03**
	b)	What types of data required for cooling load calculation?	**04**
	c)	What types of heat to be considered to design a building? Show with figure.	**03**
3.	a)	Draw and mark the basic elements of a typical summer air condition system.	**03**
	b)	Write down the significance of application of AC in a building	**03**
	c)	What types of factors affecting in comfort air conditioning system.	**04**

PART-B

4.	a)	How Building Automation and Control System (BACS) helps to design a smart building?	**05**

Instructions:

Follow the following rules to submit your answer script:

- ✓ Write the answers in blank papers.
- ✓ Write your – **Student Id, Subject Code, Session, Exam Date and Signature** at the top of the first page of answer script.
- ✓ Number each page of the answer script (upper right corner).
- ✓ Take photographs of every page using your mobile or any other devices.
- ✓ Convert them into PDF format.
- ✓ Name the PDF file as: "student id_SM21_ MID_course code".
- ✓ **Attach and send the PDF file to:** j.hasan.ipe@gmail.com
- ✓ For any other queries contact on: +880 1712 832699

For Viva:
- ✓ Your viva will start from 2.30 pm.
- ✓ The viva will be conducted via "Zoom" meeting.
- ✓ Link of the Zoom meeting will be provided through "WhatsApp" group.