MAR ATHANASIUS COLLEGE OF ENGINEERING,
KOTHAMANGALAM-686666.
(GOVERNMENT AIDED AUTONOMOUS ENGINEERING COLLEGE)
DEPARTMENT OF CIVIL ENGINEERING

FIRST SESSIONAL EXAMINATION, OCTOBER 2026
S1MA & S1MB

B24ES1T05B BASIC CIVIL ENGINEERING

Time –45 Minute **Max: 20 Marks**

PART-A
Answer All Questions.

1	Explain the major objectives of surveying and discuss their significance in planning and execution of civil engineering projects.	**CO 1**	**4 Marks**
2	Identify the major chemical constituents of cement and briefly explain the influence of each constituent on the properties of cement.	**CO 1**	**4 Marks**

PART – B
Answer All Questions.

3	a. Identify and explain any three major disciplines in civil engineering that deals with construction activities on marshy land.	**CO 1**	**6 Marks**
	b. When constructing a house, selecting the right construction materials is crucial for ensuring durability and strength. Write the properties and uses of any three essential building materials.	**CO 1**	**6 Marks**

Vision
Mentoring to Ensure Excellence

Mission
To facilitate comprehensive and integrated development of students by providing quality education that encourages sustainable practices. To mould disciplined and socially committed engineers capable of assuming professional leadership upholding national integrity.

Question No.	1	2	3	4	Max. Marks
CO Mapping	1	1	1	1	
Blooms Taxonomy level	Apply	Understand	Apply	Understand	
Marks	4	4	6	6	20

	Prepared by	Scrutinized by	Approved by HOD
Name	Boby Jacob	Dr. Praveen Mathew	Dr. Elson John
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Course Outcomes:

CO1	Recall the role of civil engineer in society and to relate the various disciplines of Civil Engineering	Understanding
CO2	Discuss the Materials, energy systems, water management and environment for green buildings	Applying
CO3	Explain different types of buildings, building components, building materials and building construction.	Applying