MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM – 686 666.
(GOVERNMENT AIDED AUTONOMOUS ENGINEERING COLLEGE)

DEPARTMENT OF MECHANICAL ENGINEERING

FIRST SESSIONAL EXAMINATION, MARCH 2025
S2 EEE A BATCH

B24ES1T05A - BASIC CIVIL AND MECHANICAL ENGINEERING (A)

Time –45 min **Max: 20 Marks**

PART-A
Answer All Questions.

1. Explain the working of a hybrid engine with a clear diagram. **CO 4** **4 Marks**

2. Explain the working of a reciprocating pump with a neat sketch. **CO 4** **4 Marks**

PART - B
Answer All Questions.

3a. Explain with the neat sketch, working of the two-stroke petrol engine. **CO 4** **4 Marks**

3b. Explain the working of a centrifugal pump with a neat sketch. **CO 4** **8 Marks**

What is priming? Why is it required in a centrifugal pump?

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.