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

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND SESSIONAL EXAMINATION, APRIL 2025
S2 CIVIL A & B BATCHES

B24ES1T04: BASIC MECHANICAL ENGINEERING

Time –45 Minutes **Max: 20 Marks**

Scheme for valuation

PART-A

Answer All Questions.

1	2 marks for writing about the 3 different belt types. 2 marks for figure.	**CO5**	**4 Marks**
2	1 mark for figure. 1 mark for power equation, 1 mark for ratio of tensions, 1 mark for solution.	**CO5**	**4 Marks**

PART - B

3	a. 1 mark each for one advantage. Likewise minimum 4 advantages.	**CO5**	**4 Marks**
	b. For discussing one type of gear 1 mark, for the figure 1 mark. Like wise for any four types.	**CO5**	**8 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