

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***UG/PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL/MAY 2026***Second Semester**Electrical and Electronics Engineering***BE3255 / UBET24203 - BASIC CIVIL AND MECHANICAL ENGINEERING***Regulations – 2021 & 2024**Duration : 3 Hrs**Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)***

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	What is meant by Transportation Engineering?	L1	1	2
2.	State any four major sub disciplines in mechanical engineering.	L1	1	2
3.	Name any leveling Instruments used for surveying.	L2	2	2
4.	List out some water Proofing Materials.	L1	2	2
5.	What is meant by Foundation? List out types of Foundation.	L2	3	2
6.	Mention the objectives of Plastering.	L2	3	2
7.	Compare 4-stroke and 2-stroke engines.	L2	4	2
8.	Define Centrifugal Pump.	L1	4	2
9.	Define 'Vapour Absorption System'.	L1	5	2
10.	What are psychometric charts?	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a i Describe the Contributions of Civil in Engineering in our Welfare Society.	L2	1	8
	ii Mention the various Specialization of field in Civil Engineering Branch. And also explain in detail.	L2	1	8
	Or			
	b Explain the aspects of Thermal Engineering in Mechanical Field.	L2	1	16
12.	a i Explain the Principles of Surveying in detail.	L2	2	8
	ii Explain the types of levelling with neat sketch.	L2	2	8
	Or			
	b i Mention the good qualities of good building stone.	L2	2	8
	ii Explain the Some of Modern materials used for Construction in current trends.	L2	2	8

13.	a	Explain the different types of Brick and Stone Masonry with neat Sketch.	L2	3	16
		Or			
	b i	Explain the types of floor suitable for residential building.	L2	3	8
	ii	List out the Advantages of Constructing of dams. What are criteria for selection of site for Construction of dams?	L2	3	8
14.	a	Explain the safety rules to be monitored in a work place in an Industry.	L2	4	16
		Or			
	b	Discuss the layout of a steam power plant and function of each component.	L2	4	16
15.	a	Explain in detail all the four stages of vapour compression refrigeration cycle.	L2	5	16
		Or			
	b	Explain the working of split air-conditioner with a neat sketch.	L2	5	16
