

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Third Semester**Mechanical Engineering***ME3393- Manufacturing Processes***Regulations - 2021**Duration : 3 Hrs**Maximum : 100 Marks***PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	List any four applications of casting.	L1	1	2
2.	What is core venting?	L2	1	2
3.	List the advantages of AC equipment over DC equipment in arc Welding.	L2	2	2
4.	List any four welding defects.	L1	2	2
5.	Distinguish between hot working and cold working of metals.	L2	3	2
6.	Name the types of forging machines.	L1	3	2
7.	Define springback.	L1	4	2
8.	What is micro forming?	L2	4	2
9.	Differentiate thermoplastics and thermosetting plastics.	L2	5	2
10.	State the principle of film blowing.	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 preparation of sand moulding process.	L2	1	8
	ii Classify the materials used for pattern making and explain briefly.	L2	1	8
	Or			
	b i Describe the constructional feature of cupola furnace.	L2	1	8
12.	ii Name any five casting defects and explain the remedies for those defects.	L2	1	8
	Or			
	a With a neat sketch, explain manual metal arc welding process.	L2	2	16
	b Explain the plasma arc welding process and write its applications and demerits.	L2	2	16
13.	a With neat sketches, explain the following smith operation:	L3	3	16
	i. Upsetting			
	ii. Bending			
	iii. Swaging			
	iv. Fullering			

Or

	b	With neat diagram explain the process of forward extrusion and also explain how hollow sections can be produced in this process.	L3	3	16	
14.	a	i	With a neat sketch, explain the hydro forming.	L2	4	8
		ii	Explain peen forming with a neat sketch.	L2	4	8
		Or				
	b	Explain with necessary sketch and application of following sheet metal forming operation: Shaving, Slitting and Notching.	L2	4	16	
15.	a	Explain a suitable method for manufacturing the plastic ballpoint pen outer body.	L4	5	16	
		Or				
	b	Recommend a suitable manufacturing process for producing plastic bottles and plastic foot balls and discuss.	L4	5	16	