06/06/2025 SE MECHANICAL SEM-III C-SCHEME QP CODE: 10082314

Max. Marks: 80

Note-			
1.	. Question one is compulsory.		
2.	2. Solve any three out of remaining five.		
Q.1		Write Short notes with sketch wherever applicable. (Solve any Four)	20
	a	Pattern Allowances	
	b	Friction welding	
	c	Rolling defects	
	ď	Gear shaping	
	e	Industrial revolutions	
Q.2	a	Explain the desirables properties of molding sands, also explain different types molding sands used in the foundry	10
	b	Classify welding and compare soldering and brazing	10
Q.3	a	Describe different types of dies with neat sketches	10
	b	Write short not on column and knee type milling machine	10
0.4	a	What are various methods of taper turning on lathe machine, explain any	10
ζ		one type in detail with neat sketch	10
	b	Explain stepwise procedure of powder metallurgy.	10
0.5	a	Describe the investment casting process with neat sketches.	10
Q.5	а		
	b	Write short note on thermit welding with their advantages, disadvantages applications.	10
Q.6	a	Compare the following	10
		1. Shaper and planer	
		2. Hot chamber and cold chamber die casting	
	b	List various nontraditional machining methods and explain electro- chemical machining in detail	10

Time: 3 hours