



Programme: B. Tech (MiE)
Course: Workshop Practice
Course Code:8ECS104
Enrolment no. _____

Full Marks: 70
Time: 3 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			4 x 5 = 20
a	Illustrate all the steps of casting process.	CO1	Remember	
	or			
b	How machining processes is negative process?	CO1	Understand	
	or			
c	Explain the features of CNC machine. Write the basics of CNC programming.	CO2	Understand	
	or			
d	How computer helps in manufacturing?	CO2	Remember	
	or			
e	What do you understand by power tools? List some hazardous conditions while using power tools.	CO3	Understand	
	or			
f	Write the precautions to be taken while using power tools.	CO3	Understand	
	or			
g	What is injection molding? Write the main components of injection molding machine.	CO5	Remember	
	or			
h	Explain the process of injection molding machine with diagram.	CO5	Understand	
	or			
Section II				
	Long Answer type questions.			3 x 10 = 30
2	What is pattern? Enlist various types of patterns with the pattern making material.	CO1	Remember	
	or			
3	Explain the working of laser beam machining (LBM) with diagram.	CO1	Remember	
	or			
4	Explain various types of tools used in fitting shops with their usage.	CO3	Remember	
	or			
5	Write the various cutting tools used in carpentry shop for the purpose of cutting wood. Explain the two saws with neat sketch.	CO3	Understand	
	or			
6	Suppose you have to do a connection of a ceiling fan, then what are the precautionary measure should you take while doing the wire connection with the main switch board. Elaborate in details.	CO4	Apply	
	or			
7	State the various tools used in Electrical Workshop.	CO4	Remember	
	or			
Section III				
	Application based questions			1 x 20 = 20
8	Illustrate the working of gas welding with diagram. Describe in brief the equipment required for Gas welding with a neat sketch.	CO6	Analyze	
	or			
9	Sketch the diagram of arc welding & write it's working. Explain all types of welding defects.	CO6	Analyze	
	or			

COURSE OUTCOME

CO1 Understand the concepts of various manufacturing methods such as casting, forming machining.

CO2 Understand the additive manufacturing with its implication in manufacturing.

CO3 Ability to Produce Fitting jobs as per specified dimensions with the use of various fitting tools.

CO4 Understand the basic concepts of electrical & electronics and understand the working principle of motors.

CO5 Ability to understand the recyclable plastics & non-recyclable plastics and various manufacturing process & also understand the various additives & fillers used in plastics & its implications.

CO6 Understand the various the types of welding such as Arc welding, TIG, MIG & various advanced welding & its practical implications in industrial arena.