M-305 MANUFACTURING TECHNOLOGY- I Blue Print of a Model Question Paper

S. No	Chapter Name	Chapter Name Periods Weightage Distribution of Allocated Allocated Weightage		n of	Question Wise Distribution of Marks				
				R	U	Ар	R	C	Ар
1	Production Lathes	14	26	01	01	2	03	03	20
2	Shaper, Slotter, and Planer	14	26	01	01	2	03	03	20
3	Foundry	09	16	01	01	1	03	03	10
4	Cutting Fluids and Metal Coatings	09	16	01	01	1	03	03	10
5	Welding	14	26	01	01	2	03	03	20
TOTAL		60	110	05	05	08	15	15	80

Unit Test - 1

emi rest r							
Q.No	Question from the Chapter	Bloom's	Marks	CO			
Q.No	Question from the Chapter	category	allocated	addressed			
	Part - A (16 marks)						
1	Production Lathes, Shaper, Slotter, and Planer	R,U	4	CO1,CO2			
2	Production Lathes	U	6	CO1,CO2			
3,4,5	Shaper, Slotter, and Planer	U	6	CO1,CO2			
Part - B (24 marks)							
6	Production Lathes	Ap	8	CO1			
7	Shaper, Slotter, and Planers	Ap	8	CO2			
8	Production Lathes, Shaper, Slotter, and Planers	Ap	8	CO1,CO2			

Unit Test - 2

O.No	Question from the topic	Bloom's	Marks	CO addressed
Q.110		category	allocated	CO addressed

Part - A (16 marks)								
1	Foundry, Cutting Fluids and Metal Coatings Welding	R,U	4	CO3,CO4,CO5				
2	Foundry	U	3	CO3				
3	Cutting Fluids and Metal Coatings	U	3	CO4				
4,5	Welding	U	6	CO5				
Part - B (24 marks)								
6	Foundry	Ap	8	CO3				
7	Cutting Fluids and Metal Coatings	Ap	8	CO4				
8	Welding	Ap	8	CO5				

R-Remembering;

U-Understanding;

Ap-Applying;

An- Analylising

C23-M-305

MODEL PAPER Unit Test - I Manufacturing Technology – I

Time : 90 Minutes Total Marks: **40**

PART – A

Instructions: 1st Question having 4 one mark questions, and remaining 4Questions carry 3 marks each

- 1. (a) Specification of lathe.
 - (b) Lathe cutting tool is a single point cutting tool. (True/False)
 - (c) Basic difference between shaper and slotter.
 - (d) significance of clearance angle.
- 2. List out any six lathe operations.
- 3. List out the different parts of a shaper.
- 4. State the main differences between planner and shaper.
- 5. How do you specify a shaper.

PART - B

Instructions: Part B consists of 3 Units. Answer any one full question from each unit. Each questioncarries 8 marks and may have sub questions.

6. Describe the functions of lathe bed and lathe head stock with the help of sketch.

(OR)

Explain any two methods of taper turning carried out on lathe machine.

7. Explain the different operations performed by the shaper

(OR)

Explain the whit worth quick return mechanism of a slotter with line diagram.

8. Explain any two operations performed on engine lathe with sketches.

(OR

Describe the construction and working principle of planar with legible sketch

MODEL PAPER Unit Test -II Manufacturing Technology – I (M-305)

Time: 90 Minutes Total Marks: 40

PART - A

Instructions: 1st Question having 4 one mark questions, and remaining 4Questions carry 3 marks each

- 1. (a) Basic limitation of cutting fluid
 - (b) Welding is a permanent joint. (True/False)
 - (c) List out fluxes.
 - (d) Define casting.
- 2. List three relative merits of the cutting fluids and coolants.
- 3. Define pattern.
- 4. List three reasons for welding defects
- 5. Write any three differences between soldering and brazing.

PART - B

Instructions: Part B consists of 3 Units. Answer any one full question from each unit. Each questioncarries 8 marks and may have sub questions.

6. Explain various properties of moulding sand

(OR)

Write short notes on centrifugal casting process.

7. Explain properties and applications of cutting fluids and coolants.

(OR)

Explain various properties and applications of lubricants.

8. What are the common defects of welding? State their causes and remedies?

(OR)

Explain the principle of gas welding with a neat sketch and write itsadvantages and applications?

MODEL PAPER DME - THIRD SEMESTER END EXAMINATION MANUFACTURING TECHNOLOGY- I (M-305)

Time: 3 hours] [Total Marks: 80]

PART-A 3x10=30

Instructions:(1) Answer all questions.

- (2) Each question carries **three** marks.
- (3) Answer should be brief and straight to the point and shallnot exceed five simple

sentences.

- 2. State the working principle of lathe.
- 3. List out any six work holding devices used in lathe.
- 4. List out the different parts of a shaper.
- 5. How do you specify a slotter?
- 6. List out various types of hand-moulding tools.
- 7. Name any six types of patterns
- 8. List three relative merits of the cutting fluids and coolants.
- 9. What is the application of Enamel paints.
- 10. State the necessity of welding
- 11. Write any three differences between soldering and brazing.

PART-B

10x5=50

Instructions: 1) Answer any five questions.

- (2) Each question carries ten marks.
- 12. Describe the functions of lathe bed and lathe head stock with the help of sketch.
- 13. Explain any two methods of taper turning carried out on lathe machine.
- 14. Explain the whitworth quick return mechanism of a slotter with line diagram.
- 15. Describe the constructional details of planar with neat sketch?
- 16. Explain Centrifugal casting. Write the advantages and disadvantages and its applications.
- 17. Explain properties and applications of cutting fluids and coolants.
- 18. Explain the principle of operation arc welding with a neat sketch and write itsadvantages and applications.
- 19. Describe the procedure for submerged arc welding with a neat sketch. State itsadvantages.