Question Paper Code: R18A22ME01

R18

ANURAG Engineering College

(An Autonomous Institution)

II B.Tech II Semester Supplementary Examinations, June/July-2024

PRODUCTION TECHNOLOGY

(MECHANICAL ENGINEERING)

Time: 3 Hours **Max. Marks: 75**

Section – A (Short Answer type questions) **(25 Marks)**

Answer All Questions		**Course Outcome**	**B.T Level**	**Marks**
1.	What are the pattern materials?	CO1	L1	2M
2.	Explain which process is called lost waxing method? Why?	CO1	L2	3M
3.	What is function of core?	CO2	L1	2M
4.	What is the Gating system.	CO2	L2	3M
5.	List various welding defects.	CO3	L1	2M
6.	Explain Principle of arc welding process.	CO3	L2	3M
7.	List some cold working processes.	CO4	L2	2M
8.	Illustrate the differences between forward and backward extrusion.	CO4	L2	3M
9.	What are the products manufactured by blow moulding.	CO5	L1	2M
10.	Name metal that are manufactured by cold chamber die casting.	CO5	L1	3M

Section B (Essay Questions)

Answer all questions, each question carries equal marks. **(5 X 10M = 50M)**

11. A)	Elaborate in detail about the properties of moulding sand.	CO1	L3	10M
	OR			
B)	Discuss with neat sketches about different type of patterns.	CO1	L3	10M
12. A)	With neat figures discuss cold chamber die casting, its advantages and applications.	CO2	L3	10M
	OR			
B)	Elaborate in detail about the various casting defects and remedies.	CO2	L3	10M
13. A)	Explain various resistance welding methods with neat sketches, their advantages and disadvantages.	CO3	L2	10M
	OR			
B)	Explain any two inert gas welding methods with their advantages and applications.	CO3	L2	10M
14. A)	Explain the significance of recrystallisation temperature in metal working? What is specific merit of cold working over hot working?	CO4	L2	10M
	OR			
B)	Explain various cold working processes with neat sketches and their applications.	CO4	L2	10M
15. A)	i) Compare blanking and punching. ii) Explain with suitable figure about injection moulding.	CO5	L3	5M 5M
	OR			
B)	i) Explain with suitable figure about impact extrusion. ii) Explain various forging operations.	CO5	L2	5M 5M