Reg. No. :					

(d) All of the above

Question Paper Code: 59713

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Third Semester

Mechanical Engineering

19UME302 - FUNDAMENTALS OF MANUFACTURING PROCESSES

(Regulation 2019)

Duration: One hour		Maximum:	30Marks	
	PART A - (6 x	1 = 6 Marks)		
	(Answer any six of the	following questions)		
1.	Chills are used in molds to		CO1- R	
	(a) Achieve directional solidification	(b) Increase freezing zone		
	(c) Reduce freezing zone	(d) Smoothen metal flow for reducing spatte		
2.	The pattern used for mass production is		CO1- U	
	(a) Match plate pattern	(b) Split pattern		
	(c) Skeleton pattern	(d) Single plate pattern		
3.	The ratio of acetylene to oxygen is appr flames used in gas welding.	roximately for neutral	CO2-R	
	(a) 1:1 (b) 2:3	(c) 3:2 (d) 2:5		
4.	Heat is created by the chemical reaction in		CO2-R	
	(a) Resistance welding	(b) Oxyacetylene welding		
	(c) Tungsten arc welding	(d) Thermit welding		
5.	Good surface finish and better dimensional a	ccuracy can be achieved in	CO3- U	
	(a) Cold working process	(b) Hot working process		
	(c) Both (a) and (b)	(d) None of the above		
6.	In circular drawing process, when the dediameter of the die, then the process is called	-	CO3- R	

(b) Hollow drawing (c) Deep drawing

(a) Forced drawing

7.	Shearing the sheet into two or more pieces is known as?			CO4- U
	(a) Perforating	(b) Parting		
	(c) Notching	(d) Lancing		
8.	As the clearance increases, the punch force re-		CO4- R	
	(a) Decreases	(b) Increases		
	(c) Remains same	(d) First increases then dec	crease	
9.	9. Which of the following is an example of thermoplastic material?			
	(a) Camera bodies	(b) Automobile parts		
	(c) Electric plugs	(d) Electric insulation		
10.	Which of the following characteristics does no	at affect the properties of pl	astics?	CO5- U
	(a) Their molecular structure	(b) Their degree of polym	erization	
	(c) Both (a) and (b)	(d) None of the above		
		(e)		
	PART – B (3 :	x 8= 24 Marks)		
	(Answer any three of t	the following questions)		
11.	Explain about various properties required for	the molding sand.	CO1- U	(8)
12.	12. Explain about various welding defects and explain the remedies for		CO2- U	(8)
	those defects.			
13.	3. Write a short note on Wire drawing and Tube drawing.			(8)
14.	4. Enumerate rubber pad forming process with suitable sketch.			(8)
15.	5. Explain about thermoforming process and its types with neat sketch			(8)