## MEDEO



USN 1 M S

(Autonomous Institute, Affiliated to VTU) (Approved by AICTE, New Delhi & Govt. of Karnataka) Accredited by NBA & NAAC with 'A+' Grade

## SEMESTER END EXAMINATIONS - MARCH 2022

Course Na	ode : MEOE01 Max. Marks	: 1	<b>v</b> 100
Instructi	Disparies	: ;	3 Hrs
• An	Ons to the Candidates:		
	swer one full question from each unit.		
1. 点)	Distinguish between Chia		Marie .
<b>b</b> )			
	"I mornation workflow	CO1	(10)
2. a)	WITH a sketch and the	CO1	(10)
p)	With a sketch, explain the AM data formats. Classify the non contact method of data collection process and explain any two methods.	CO1	
	any two methods.	CO1 CO1	(10)
		COI	(10)
3. a	Explain the following AM UNIT - II		
	material system AM process, i) Solid sheet		
t	) Write about i) What are the	CO2	(10)
	Write about i) What are the steps involved in hollowing the part?  Write also in the steps involved in hollowing the part?	CO2	(10)
4.	Write short and assembly?	COZ	(10)
	Write short notes on: i) Metal Systems		
	III) Removal of c	CO2	(20)
	iv) Part Orientation.		
5.	a) Illustrate the process	4	
The state of the s	b) List the different Material		
	b) List the different Materials used in Photo polymerization process and explain Photo polymerization process.	CO3	(10)
6.		CO3	(10)
1	With a neat sketch and discuss the working process of Powder bead		
	b) List the process name of the process of Powder bead	CO3	(15)
	List the process parameter in power bed fusion process and explain polymer laser sintering process.		(-0)
	explain	CO3	(05)
7	a) Write about august WNIT - IV		
	The about Supporting and building		
,	b) What are the limitations of FDM?	CO	4 (08
	E) List out the process parameters of FDM.	CO	4 (06
8.	Write a note on:	CO	4 (06
	i)Powder Feeding ii) Material D. II	CC	1 1-
		CO	4 (20
	iv)Laser Based Metal Deposition Processes		
0	HALT V		
9.	a) Explain: 1)Aluminum filled enovy tooling ii) a		
. 40		CC	(
	model analysis.	G CC	05 (08
10.	a) Explain Epoxy tools and Paper Bulb Molding Tool		
10.	<ul><li>a) Explain Epoxy tools and Paper Pulp Molding Tools.</li><li>b) List out the benefits of 3D printing in various domain.</li></ul>	C	05 (1
	, and the state of		

List out the benefits of 3D printing in various domain.

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CO5

(80)