OF TE	CBCS SCHEME
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21AU383

Question Paper Version: A

WAR CONTRACTOR OF THE PARTY OF			
Third Semester	B.E./B.Tech.	Degree Examination,	Dec.2023/Jan.2024
			All the second s

Time: 1 hr.] [Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1.	Answer a	all	the	fifty	questions,	each	question	carries one	mark.
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- Use only Black ball point pen for writing / darkening the circles.
- For each question, after selecting your answer, darken the appropriate circle

		corresponding to the sam	e question numbe	er on the OMR s	heet.	
	4.	4. Darkening two circles for the same question makes the answer invalid.				
	5.	Damaging/overwriting,	using whiteners	on the OMR	sheets are	strictly
		prohibited.				
_	~~			<u> </u>		
1.	a)b)c)	S stands for Selective Laser sintering Selective lithographic sinterin Separated light sintering None of the above	g		#	
2.		hich file type is most common SLDRT b) JPG	ly exported from CA c) ST		X3G	
3.	a)	e alternative name for rapid pr Additive manufacturing Direct CAD manufacturing	b) La	yer manufacturing of these		
4.	a)b)c)	oose the correct sequence to g 3D CAD data – CAD solid mo CAD solid model – 3D CAD STL file – 3D CAD data – CA 3D CAD data – STL file – CA	odel - STL file – RF data – RP prototype LD solid model – RF	e – STL file P prototype		
5.	a)	L is elaborated as Straight — lithography Stereo — lithography		reto – lithography raight – lipsography	y	
6.	a)	hich of the following is not a s Milling Sawing				

7.	Which of the following is least important in do a) Machine size b) Tolerance		ototyping? d) CAD software
8.	A computer Module of a part design on a CAI a) Computer prototype c) Solid prototype	b) Geometric prototy d) Virtual prototype	
9.	Which of the following is not an example of a a) FDM b) SLS	dditive manufacturing c) EMB	g d) Injection moulding
10.	Which of the following is one of the design prantal a) Build c) Pre-processing	ocess steps b) Concept d) Transfer to mach	ine
11.	STL file format is represented by interaction (a) Lines and hexagons (c) Lines and triangles	b) Lines and rectang d) Lines and circles	gles
12.	What is the format for the prototyping machina) prt b) slt	ne file c) •stL	d) •iges
13.	STL files contains a) Mass properties of the model c) drawing data	b) Geometrical data d) All of these	
14.	Which file format cannot be converted into State a) •prt b) •slt	ΓL file format c) •dwg	d) •stp
15.	Process of converting STL file model into lay a) Chopping b) Slicing	ers is called c) Cutting	d) Trimming
16.	Which of the following is not liquid – based r a) SLA b) LOM	apid prototype systen c) SGC	d) SOUP
17.	In the process, one starts with a six size of the desired object and material is remova) Subtractive process c) Formative process	ngle block of solid noved until the desired b) Additive process d) All of these	shape is reached
18.	Which of the following is the first step of the a)3D Modeling b) Data conversion	rapid prototyping pro c) Building	d) Post - processing
19.	The STL files translate the part geometry from a) CNC machine b) CMM machine	n a CAD system to _ c) RP machine	d) CAPP machine
20.	Which CAD software cannot be used to create a) CRED c) NX unigraphics	b) CATIA d) Adobe illustrator	
21.	Which of the following is typically the most ea a) SLA b) SLM	expensive type of 3D c) FDM	printer d) None of these
22.	Which of the process, the input material is in a)LOM b) SLS	powder form c) FDM A – 2 of 4	d) MJM

23.	Which one of the rapid prototyping process uses a photosensitive liquid polymer as the starting material a) Droplet Deposition Manufacturing b) Used – deposition Modeling c) Laminated-object-Manufacturing d) Stereolithography
24.	LENS stands for a) Laser – Engineered Net Shaping b) Laser – Emitted Net Shaping c) Laser – Elicited Net Shaping d) None of these
25.	LENS builds components in an additive manner from a) Photo – polymer liquid b) Sheet of paper c) Powdered metals d) Metal wires
26.	Stereolithography is also called photopolymerization a) True b) False
27.	Most widely used, rapid prototyping technology in the current material addition is a) Ballistic particle manufacturing b) Selective Laser sintering c) Solid ground curing d) Stereo-lithography
28.	Which one of the following rapid prototype technologies uses molten materials the starting material a) Three-Dimensional Printing b) Fused —Deposition Modelling c) Stereo-lithography d) Selective Laser Sintering
29.	What material is not used in 3D printing a) Nylon b) ABS c) PLA d) PVC
30.	Which of the following process is suitable for making injection modeling tools a) SL b) SLS c) EBM d) FDM
31.	Full form FDM is a) Fixed Development Modelling b) Fusion Development Modelling c) Fused Deposition Modelling d) Focused Deposition Modelling
32.	What printer melts metal a) SLS b) SLM c) SLA d) FDM
33.	Which of the following is typically the cheapest type of 3D printer a) FDM b) SLA c) Power-based d) SLM
34.	Which material is not available for LOM process a) Paper b) Plastic c) Metal d) Glass
35.	In fused deposition modelling the raw material is used in the form of a) Wax b) Wire c) Powder d) All of these Ver-A – 3 of 4

36.	Following RP technologa) Droplet Deposition reb) Fused-deposition med c) Laminated object mad) Selective Laser Sinter	nanufacturing delling mufacturing	ock as the starting m	aterial
37.	Which of the process us a) SLA	ses extrusion concept b) SLS	c) FDM	d) MJM
38.	In FDM, molten materia) True	al inside a hot chambe b) False	r does not extrude the	rough a nozzle
39.	Which of the following a) SLS	RP system is not deve	eloped by 3D systems c) PLT	d) SLA
40.	Which one of the proce a) LOM	esses is not using a Last b) SLA	erc) SLS	d) FDM
41.	Electron beam generatia) True	on is a much more effi b) False	cient process than las	ser beam generation
42.	Direct Metal Deposition a) Metallic powders	n (DMD) process use b) Metal wires	s c) Either A or B	d) Neither A and B
43.	Electron Beam Melting a) Chalmers University b) Optomec Inc. c) University of Texas, d) None of the above	of Technology, Swed		
44.	Direct metal deposition a) Lasers		c) Power metallurg	y d) All of these
45.	EBM is not very accura a) True	nte compared to SLA, S b) False	SGC	
46.	Which one of the followa) FDM	wing is not extrusion b b) 3D printing	ased RP systems c) LOM	d) EBM
47.	Direct metal deposition a) Two-axis tables	uses b) Three-axis tables	c) Four-axis tables	d) Five-axis tables
48.	is	r the production of par b) FDM	rts, molds and dies the	nat are made out of tool steel
49.	a) Droplet Deposition Ib) Fused-deposition mac) Laminated-object mad) Selective Laser sinte	facturing is another nate Manufacturing anufacturing anufacturing arring	me for one of the foll	d) LOM owing RP technologies
50.	Rapid prototyping tech a) True	b) False	ed to make production	1 parts