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English

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Submission Deadline: 15/7/2022 12:30

TA202P: End Semester Examination -Set A

Q.1 Which one is correctly matched between groups 1 and 2 below

Group 1:

P. G09

Q.G41

R. G09

S. G03

Group 2:

Linear Interpolation Retardation Circular Interpolation Cutter radius Compensation

R-3, P-1, S-4, Q-2 S-4, P-1, R-3, Q-2 R-3, S-4, P-1, Q-2 Q-2, S-4, P-1, R-3

Max. score: 1; Neg. score: 0.5

- a
- d

Q.2 A DC servo motor is directly driving an NC table. The pitch of the lead screw of the table is 5mm. The motor rotates at 100 rpm for an applied voltage of 10V. If the voltage speed characteristic of the motor is linear, the applied voltage for a table to move at 3m/min is

Max. score: 1; Neg. score: 0.5

- 60
- 30
- 50
- 33

Q.3 Circular arc on a part profile in being machined on a vertical CNC milling machine. The CNC part program using metric units with absolute dimensions is listed below:

N60G01X30Y55Z5F50N70

G02X50Y35R20N80G01Z5

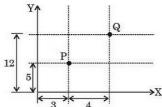
The coordinates of the centre of the circular arc are:

Max. score: 1; Neg. score: 0.5

- (50,55)
- (30,55)
- (30,35)
- (50,35)

Q.4

A drill is positioned at point "P" and it has to proceed to point "Q". The coordinates of point "Q" in the incremental system of defining position of a point in CNC part program will be the



following:

ter o
er o
ter o
er o
С
ol is

Max. score: 1; Neg. score: 0.5

Max. score: 1; Neg. score: 0.5

P-2, Q-4, R-3, S-1

(2) Corrosive reaction(3) Ion displacement(4) Fusion and vaporization

(1) Erosion

	P-2, Q-3, R-4, S-1
	P-2, Q-3, R-1, S-4
	P-3, Q-2, R-4, S-1
	0 Which of the following EDM machine is used for cutting shapes out of flat sheet or e of metal?
piat	e of metal ?
Max	k. score: 1; Neg. score: 0.5
	Sinker EDM
	Wire EDM
	None of the mentioned
	Wire and sinker EDM both
	1 For maximum power delivery using resistance- capacitance relaxation circuit in EDM harge voltage should be% of supply voltage.
Ma:	s. score: 1; Neg. score: 0.5
	23
	80
	72
_	65
Q.1	2 The dielectric medium in EDM is used for:
Max	x. score: 1; Neg. score: 0.5
	To make the medium conducting
	Flushing away the debris
	None of the mentioned
	To decrease the material removal rate
O 1	3 Which should be considered when orienting the part on the build plate on the slicing
	ware of an additive manufacturing setup.
soft	ware of an additive manufacturing setup. a. score: 1; Neg. score: 0.5
soft	k. score: 1; Neg. score: 0.5
soft	c. score: 1; Neg. score: 0.5 The footprint of the part should be as small as possible
soft	k. score: 1; Neg. score: 0.5
soft	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these
soft	The footprint of the part should be as small as possible Holes should always be printed horizontally
Max I	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these
Max	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these One should minimize the number of overhangs
Max	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these One should minimize the number of overhangs 4 Which of the following does not influence how the 3-D printed part will be?
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Max Q.1	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these One should minimize the number of overhangs 4 Which of the following does not influence how the 3-D printed part will be? A score: 1; Neg. score: 0.5 Using support material
Max Q.1	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these One should minimize the number of overhangs 4 Which of the following does not influence how the 3-D printed part will be? A score: 1; Neg. score: 0.5 Using support material Layer thickness
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Q.1	The footprint of the part should be as small as possible Holes should always be printed horizontally All of these One should minimize the number of overhangs 4 Which of the following does not influence how the 3-D printed part will be? 6 score: 1; Neg. score: 0.5 Using support material Layer thickness All the above Part orientation 5 FDM build plates are prepared by: 6 score: 1; Neg. score: 0.5 Putting a layer of painter's tape on it

1ax.	score: 1; Neg. score: 0.5
1	BS
١	Jylon
F	VC
F	PLA
.17	Which of the 3-D printing processes uses a pool of resin to create a solid part?
1ax.	score: 1; Neg. score: 0.5
9	LA
F	DM
1	lone of the above
5	NL
	In additive manufacturing processes which is the most common type of file that is cted from a CAD software?
1ax.	score: 1; Neg. score: 0.5
J	PG
5	LDRT
>	3G
5	TL
.19	Which type of CMM is most suitable for large, heavy workpieces?
1ax.	score: 1; Neg. score: 0.5
	Pridge type Cantilever type
	loating bridge type
	Horizontal boring mill type
.20	Which direction is sensed by a linear measurement transducer in CMM?
1ax.	score: 1; Neg. score: 0.5
1	legative direction only
F	Positive direction only
1	lon used in sensing direction
E	Both positive and negative direction
.21	Which principle is used in the 3-Master guideways and probe location?
1ax.	score: 1; Neg. score: 0.5
	rinciple of static design
	rinciple of static design
	rinciple of dynamic design
	Principle of kinematic design
.22	What is the cause of translation errors in CMM?
1ax.	score: 1; Neg. score: 0.5
F	rror in straightness

Error in scale division

Roll error
Twisting error



Time of cateing in laser bount laser in 8 processes mar cases

With increase in cutting speed
 ■ With decrease in cutting speed
 ■ None of the above
 ■ With increase in power
 Q.30 LASER stands for
 Max. score: 1; Neg. score: 0.5
 ■ Light amplification by stimulated erosion of reaction
 ■ Light amplification by stimulated emission of radiation
 ■ Light amplification by stimulated emission of reaction
 ■ Light amplification by stimulated emission of radiation
 ■ Light amplification by stimulated erosion of radiation
 ■ Light amplification by stimulated erosion of radiation