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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

M.TECH

FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)

(Objective Type)

Subject Code: AMTME0201

Subject: Digital Manufacturing and Automation

Max. Mks. : 40

Time : 70 Minutes

General Instructions:

All questions are compulsory.

Question No- 1 to 5 are objective type question carrying 2 marks each.

Question No- 6 to 20 are also objective type/Glossary based question carrying 2 marks each.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty	Correct	Option1	Option2	Option3	Option4
1	The most common type of feed drives used on CNC machines is the:		Single Choice Questions	Single Choice Questions	2		Single Choice	Smart	Electric servo motor	Electric servo motor	Hydraulic drive.	Manual crank	Manual/hydraulic system
2	The depth that the tool is plunged into the surface is called as _____		Single Choice Questions	Single Choice Questions	2		Single Choice	Brilliant	depth of cut	feed	depth of cut	depth of tool	working depth
3	The coolant system of a CNC machine would most commonly be a _____pump		Single Choice Questions	Single Choice Questions	2		Single Choice	Brilliant	Medium pressure	Low pressure	Medium pressure	High pressure	Gravity
4	For a robot unit to be considered a functional industrial robot, typically, how many degrees of freedom would the robot have		Single Choice Questions	Single Choice Questions	2		Single Choice	Brilliant	6	4	5	6	7
5	Group technology is often related to which one of the following		Single Choice Questions	Single Choice Questions	2		Single Choice	Smart	Cellular manufacturing	Cellular manufacturing	Product layout	Combination layouts	Self-directed teams
6	"""""""""""""""""""""""""""""""""is the layout used to manufacture submarine.		Glossary I	Glossary I	2		Single Choice	Brilliant	fixed-position	continuous	fixed-position	assembly	
7	"""""""""""""""""""""""""""""""""" system has the least flexibility.		Glossary I	Glossary I	2		Single Choice	Brilliant	continuous	continuous	fixed-position	assembly	
8	"""""""""""""""""""""""""""""""""" type of operations would be most closely associated with division of labor.		Glossary I	Glossary I	2		Single Choice	Brilliant	assembly	continuous	fixed-position	assembly	
9	_____ is a serial Robot.		Glossary II	Glossary II	2		Single Choice	Brilliant	Industrial Robot	Industrial Robot	KUKA	ASIMO	
10	_____ is a humanoid robot		Glossary II	Glossary II	2		Single Choice	Brilliant	ASIMO	Industrial Robot	KUKA	ASIMO	
11	_____ deals with manufacturing and installation of robot.		Glossary II	Glossary II	2		Single Choice	Brilliant	KUKA	Industrial Robot	KUKA	ASIMO	
12	Using (an) _____ can destroy the effectiveness and efficiency of a cut when machining ferrous alloys with coated-carbide cutters.		Glossary III	Glossary III	2		Single Choice	Brilliant	Flood coolant	Increase	Actuators	Flood coolant	
13	If a percentage of cobalt in Tungsten carbide tool increases, then toughness of tool will _____		Glossary III	Glossary III	2		Single Choice	Brilliant	Increase	Increase	Actuators	Flood coolant	
14	Drives are also known as _____		Glossary III	Glossary III	2		Single Choice	Brilliant	Actuators	Increase	Actuators	Flood coolant	
15	___ mode switch position allows programs to run		Glossary IV	Glossary IV	2		Single Choice	Brilliant	Auto	Edit	Auto	MDI	
16	___ mode switch position allows programs to be modified.		Glossary IV	Glossary IV	2		Single Choice	Brilliant	Edit	Edit	Auto	MDI	

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty	Correct	Option1	Option2	Option3	Option4
17	_____ mode switch position lets you move the machine axes manually.		Glossary IV	Glossary IV	2		Single Choice	Brilliant	MDI	Edit	Auto	MDI	
18	The development of first NC machine tool project was awarded to		Glossary V	Glossary V	2		Single Choice	Brilliant	MIT	Improved strength of thecomponents	FALSE	MIT	
19	The running cost of CNC is higher than conventional machine..		Glossary V	Glossary V	2		Single Choice	Brilliant	FALSE	Improved strength of thecomponents	FALSE	MIT	
20	..... is not the advantage of CNC machines.		Glossary V	Glossary V	2		Single Choice	Smart	Improved strength of thecomponents	Improved strength of thecomponents	FALSE	MIT	