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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)

(Subjective Type)

Subject Code: AMTME0201

Max. Mks. : 30

Subject: Digital Manufacturing and Automation

Time : 50 Minutes

**General Instructions:**

*All questions are compulsory.*

*Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.*

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Explain the important features of CNC machines.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	Briefly explain economics of NC manufacturing over conventional manufacturing.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	How evolution in electronics changes manufacturing industry?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	Explain what is meant by word addressed format?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	Specify the three types of information in a part program required to control a machine.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	What is meant by the term's 'modal' and 'non-modal'?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	Why does temperature have such an important effect on tool life?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	Why are chemical stability and inertness important in cutting tools?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
9	What are the advantages and limitations of using qualified tools?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

10	Distinguish between the AGV and Robot.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	Explain  few robotics applications in manufacturing.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	Explain the different types of automation.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Differentiate between product layout and group technology layout.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	List the different flexibilities in FMS.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	Briefly discuss the information processing cycle in a manufacturing firm.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant