Q.23 State the Disadvantages of Electro chemical Machining. (CO1)
Q.24 Differentiate between absolute and Incremental coordinate system. (CO2)
Q.25 Describe NC words. (CO1)
Q.26 Explain the following milling operations.
i) Face milling ii) Side milling (CO5)
Q.27 State the working principle of USM. (CO1)
Q.28 Write classification of robot. (CO4)
Q.29 Explain any four Robot languages. (CO4)
Q.30 Explain universal Milling Machine with neat sketch. (CO4)
Q.31 Prepare simple Part program for Drilling. (CO5)
Q.32 Explain NC part programming Languages. (CO3)
Q.33 Explain Part program structure with example. (CO4)
Q.34 Differentiate between NC system and CNC system. (CO2)
Q.35 Give the advantages and disadvantages of DNC machines. (CO2)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain the following milling methods with neat sketch. (Co5)
i) Up or conventional milling
ii) Down or climb milling
Q.37 Explain in details PTP control, continuous-path control and controlled-path robot, Also give the technical features of an industrial robot. (CO4)
Q.38 Explain the principle and process of EBM and state its limitations. (CO3)

No. of Printed Pages : 4 180354/170354
Roll No. .....

5th Sem / Auto
Subject:- Advanced Manufacturing Processes

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 Open loop system controls the
a) Input b) Output
c) Both (a) & (b) d) None
Q.2 What does CNC machine use to control motion and speed?
a) Numerical
b) Programs, as well as computer keyboard, Graphical user interface
c) Feedback system
d) GUI
Q.3 Numerical control_____
a) applies only to milling machines
b) is a method for producing exact number of parts per hour
c) is a method for controlling by means of set of instructions
d) None of the mentioned
Q.4 A code for Rapid Positioning is_____.
a) G09 b) G02
c) M01 d) G00

Q.5 Computer will perform the data processing functions in
a) VMC b) CNC
c) DN d) all of the mentioned

Q.6 In the CNC machine tool, the part program entered into the computer memory
a) can be used only once
b) can be used again and again
c) can be used again but it has to be modified every time
d) none of the mentioned

Q.7 In a part program commands
a) One command is interpreted at a time & executed
b) Two commands are interpreted at a time and executed
c) Both (a) & (b) d) None

Q.8 In a CNC machine, a command.
a) Starts with a numerical value and ends with a alphabet
b) Start with a numerical value and ends with two alphabets
c) Starts with a alphabet and ends with a numerical value
d) None

Q.9 G-codes in computerized numerical control machines is a (CO1)
a) Preparatory codes-instructions
b) Final codes-instructions
c) Both (a) & (b)
d) None

Q.10 In ultrasonic Machining, magnetostriction converts magnetic energy into which type of energy?
a) Mechanical energy b) Electrical energy
c) Thermal energy d) None of the mentioned

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Write full form of CNC (CO2)

Q.12 Name any two dielectric fluids used in electric discharge machining. (CO1)

Q.13 Name the commonly used abrasives in ultrasonic machining. (CO1)

Q.14 NC machines are best suitable for_____ Production. (CO2)

Q.15 Open loop control are _____ accurate as compared to close loop control system. (CO2)

Q.16 _____ gas is filled in flash lamp is laser beam machining. (CO1)

Q.17 Name the M code for "Clamp" and "Tool Change". (CO3)

Q.18 What is the other name of electric discharge machining? (CO1)

Q.19 There is no difference between NC, CNC, and a DNC system (True/False) (CO2)

Q.20 G04 code is used for specify _____ (CO2)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Write a note on MCU working along with its Types.

Q.22 Write Advantages and Disadvantages of Electro-chemical Machining.