Q.25 Describe aosoltue and incremental coordinate system. (CO-2)

Q.26 Explain the variation of Metal removal rate (MMR) with respect of voltage effect in EDM. (CO-2)

Q.27 State the working principle of EBM. (CO-1)

Q.28 Write Anatomy of robot. (CO-4)

Q.29 Describe Terminology of EDM. (CO-2)

Q.30 Explain Horizontal Milling Machine with neat sketch. (CO-4)

Q.31 Prepare simple Part programme for plain Milling. (CO-5)

Q.32 Explain NC part programming Languages. (CO-3)

Q.33 Explain Part program Formats with example. (CO-4)

Q.34 Explain Robot Terminology/Technical features of an industrial Robot. (CO-4)

Q.35 Explain the following milling operations with Sketch. (CO-5)

1) Plain milling 2) Angular milling

SECTION-D

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

Q.36 Explain the principle and process Parameters of USM and state its applications. (CO-3)

Q.37 Describe Elements of plain milling cutter & male neat sketch of any two milling cutter. (CO-5)

Q.38 Explain the Classification of Robots on the Basis of Co-ordinate system/Physical Configuration. (CO-4)

Roll No. .....

5th Sem / Branch : Automobile Engineering
Sub. : Advanced Manufacturing Processes

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 The full form of CNC (CO-1)

a) Computer numerical component
b) Common numerical control
c) Both (a) & (b)
d) Computer numerical control

Q.2 Computer numerical control machines use (CO-2)

a) Digital data & a computer
b) A computer and a CAM program
c) A computer, a CAM program & a digital data
d) None

Q.3 NC contouring is an example of (CO-2)

a) Continuous path positioning
b) Point-Point positioning
c) Absolute positioning
d) Incremental positioning

Q.4 G-codes in computerized numerical control machines is a Preparatory codes-instructions (CO-1)

a) Preparatory codes instructions

b) Final codes-instru ctions
c) Both A & B
d) None

Q.5 A CNC Machine controls the movements of the machine to (CO-1)
a) Automate b) Monitor
c) Both A & B d) None

Q.6 In which of the following materials Rotary Ultrasonic Machining can be used to drill holes through them?
a) Glass b) Alumina
c) Ferrite d) All of the mentioned

Q.7 Which of the following is not a dielectric fluid? (CO-4)
a) Kerosene b) White spirit
c) Silicon Oil d) Diamond

Q.8 Ultrasonic Machining can be used for which of the following processes and applications?
a) Drilling
b) Sinking and contouring
c) Polishing
d) All of the mentioned

Q.9 Which of the following code will give point to point movement?
a) G94 b) G01 & G56
c) G56 & G94 d) G00

Q.10 Which of the following code is used to select y-z plane in milling?
a) G19 b) G01 & G56
c) G56 - & G94 d) None of the above

SECTION-B

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

Q.11 CNC stands for _____. (CO-3)

Q.12 Mannual method is a programming method of Robot. (True/False) (CO-3)

Q.13 Write full form of ECM. (CO-3)

Q.14 Conversion of units is possible in case of DNC machines (True/False) (CO-3)

Q.15 Name any two dielectric fluids used in electric discharge machining. (CO-1)

Q.16 _____ gas is filled in flash lamp is laser beam machining. (CO-1)

Q.17 First milling machine came into existence in about 1770 (True/False) (CO-4)

Q.18 In 1954 the first programmable robot is design by _____. (CO-4)

Q.19 In which year, OTC DAIHEN have introduced a line of arc welding and handling robots. (CO-4)

Q.20 Name the M code for "Tool Change". (CO-3)

SECTION-C

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

Q.21 State the Disadvantages of LBM. (CO-1)

Q.22 Describe G codes in part programming. (CO-1)

Q.23 Discuss function and benefits of DNC. (CO-2)

Q.24 Explain the difference between NC and CNC system. (CO-2)