Q.28 Explain and draw any two Input devices in CAD

Q.29 Explain any two applications of computers in manufacturing line.

Q.30 What is CIM. Explain briefly.

Q.31 Explain concatenation transformation.

Q.32 Define transducer. Explain active and passive transducer.

Q.33 List out the benefits of CIM.

Q.34 Explain various types of co-ordinate system in CAD.

Q.35 Differentiate between LCD and LED.

SECTION-D

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

Q.36 Explain Various 2D Geometrical Transformation.

Q.37 Explain various Adaptive control System with their advantages and application areas.

Q.38 "Computers play an important role in quality control" Justify the statement the statement with suitable examples.

No. of Printed Pages : 4 123752

Roll No. .....

G.E. , Mechanical Engg (CAD/ CAM Design)

Subject:- CAD / CAM

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Components manufactured by CAM needs

a) Further machining to achieve the final product
b) No further machining required
c) Very light machining is required
d) none of the above

Q.2 Wastage of material during CAM is

a) more than conventional manufacturing
b) less than conventional manufacturing
c) equal to conventional manufacturing
d) none of the above

Q.3 CAD/ CAM is the inter-relationship between

a) Marketing and design
b) manufacturing and marketing
c) engineering and marketing
d) engineering and manufacturing

Q.4 Which of the following produces the best quality graphics reproduction?

a) Dot matrix printers b) Laser printers

c) Plotters d) Inkjet printers

Q.5 CAD/CAM can find application in
a) Automated drafting
b) shop floor control
c) material requirements planning
d) All of the above

Q.6 LCD stands for output devices is
a) liquid crystal displays
b) light controlling diode
c) light controlling device
d) liquid crystal device

Q.7 Which is not a CAD CAM model
a) tree model b) solid frame
c) wire frame d) surface model

Q.8 What key hardware item ties a CAD/CAM system together?
a) Plotter b) digitizer
c) Graphic work station d) keyword

Q.9 The key to the graphics work station is the display controller which allows the computer to communicate with
a) programmer b) Surroundings
c) CRT d) input

Q.10 The benefit of CAD is
a) improved accuracy of design
b) shorter lead times
c) minimized transcription errors
d) All of the above

SECTION-B

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

Q.11 Name any two output devices:

Q.12 Expand DNC

Q.13 Define Automation

Q.14 Write any two dis-advantages automation.

Q.15 Write programming code for incremental coordinate system.

Q.16 Expand CMM machine

Q.17 Define simulation

Q.18 Expand ACS

Q.19 Axis perpendicular to work holding surface of a CNC machine is

Q.20 CADD stands for

SECTION-C

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

Q.21 Write the limitation of CAD.

Q.22 What is surface modelling?

Q.23 Define Geometrical modelling in brief.

Q.24 Explain WCS system in detail.

Q.25 Explain various problems with conventional NC.

Q.26 Define Scaling and its importance in CAD.

Q.27 Write advantages and applications of NC and CNC machines.