

These are sample MCQs to indicate pattern, may or may not appear in examination

University of Mumbai
Online Examination 2020

Program: BE Mechanical Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VII

Course Code:MEC702 and Course Name:CAD/CAM/CAE

Time: 1hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .			

Q

When polynomial sections are fitted so that the curve passes through all the control points, it is called as-

A

approximation spline

A

interpolation spline

A

convex hull

A

defining polygon

A region of a part with some interesting geometric or topological properties and having

Q

engineering significance is called as-

A

curve

A

feature

A

transformation

A

modelling

An edge or skeletal representation of a real-world 3D object using lines and curves is called as-

Q

wire frame modelling

A

surface modelling

A

Constructive Solid Geometry (CSG)

A

windowing

Q

In line clipping algorithm the code of area where line will be clipped

A

1111

A

2222

A

0000

A 3333
Q Computer graphics is applied in
A CIM
A Manual drawing
A Robotics
A Simulation, videos
Q Mirror transformation is to be done along
A Plane
A Axis
A Surface
A Point
Q Inverse scaling is
A Creating object's original/previous shape
A Creating object's new shape
A Creating object's features
A Creating object's
Q Transformtion is concerned with
A CAM
A CIM
A CAE
A Computer graphics
Q In transformation and during concatenation, which is correct?
A AxB not equal to BxA
A $AxB = BxA$
A $AxB > BxA$
A $AxB < BxA$
Q G41 stands for
A Cancel cutter compensation
A Cutter compensation right
A Cutter compensation left
A Fast cutter compensation
Q G17 stands for
A XY plane designation
A ZX plane designation

A ZY plane designation
A YZ plane designation
Q G codes are called as
A Miscellaneous functions
A Preparatory functions
A Miscellaneous codes
A Preparatory codes
Q N is used in part programming for
A Miscellaneous functions
A Preparatory functions
A Miscellaneous codes
A Sequence number
Q CST stands for
A Constant strain triangular element
A Coefficient strain triangular element
A Common strain triangular element
A Coding strain triangular element
If the body is in a state of equilibrium then the energy is minimum. This statement is considered
Q in____
A Inverse matrix method
A Weighted residual method
A Galerkin's principle
A The minimum potential energy principle
Q Which of the following modules of FEA is used to determine natural frequency?
A Static analysis
A Thermal analysis
A Modal analysis
A Transient analysis
Q Which of the following is not an FEA package?
A ANSYS
A Nastran
A Abaqus
A AutoCAD
Q In which database model, the data is represented by tree structure?

A Network Database
A Hierarchical Database
A Relational Database
A Object Oriented Database
Q In which data base model, the data is represented by parent and child structure linked through linked list?
A Network Database
A Hierarchical Database
A Relational Database
A Object Oriented Database
Q From the following, which one is a not relational database management software system?
A Oracle
A Sybase
A MS-SQL
A Turbo-C
Q Integration of manufacturing systems and business information systems using common database for design, manufacturing and all other tasks with the entire operations is -----
A --
A Computer Aided Design
A Computer Aided Manufacturing
A Computer Aided Process Planning
A Computer Integrated Manufacturing
Q Full form of MJM is.....
A Multi Joint Modelling
A Multi Jet Modelling
A Muted Jet Modelling
A Mitred Jet Modelling
Q Which of the following is the first step of the rapid prototyping process?
A 3D Modeling
A Data Conversion
A Building
A Post processing

Which of the following quality of prototypes is achieved by post printing processing?

Q

A

Smoother feel

A

Higher durability

A

Antimicrobial resistance

A

Toughness

Q

What purpose does support material serve in 3D printing?

A

It increases the durability of the final product

A

It allows easier assembly and post-processing

A

It reduces waste

A

It supports layers as they are printed, functioning as scaffolding


