

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

University of Mumbai
Online Examination 2020

Program: BE Automobile Engineering

Curriculum Scheme: Rev2012

Examination: Final Year Semester VII

Course Code: AEC702 and Course Name: CAD/CAM/CAE

Time: 1 hour

Max. Marks: 50

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

Q1.	When the curve passes through all the data points then the curve is an _____
Option A:	Approximate curve
Option B:	Interpolate curve
Option C:	non parametric curve
Option D:	Analytical curve
Q2.	In the following three-dimensional modelling techniques, which do not require much computer time and memory?
Option A:	Surface modelling
Option B:	Solid modelling
Option C:	Wireframe modelling
Option D:	CSG model
Q3.	Two curves are said to be connected at a point with zeroth order parametric continuity C^0 if
Option A:	There is a no continuity of both the curves at that point
Option B:	The curvatures to both the curves at that point is equal
Option C:	The tangents to both the curves at that point is equal
Option D:	Both curves simply meet at that point
Q4.	If line Having the region code "0000" for both End Points?
Option A:	Entire Line is not visible
Option B:	Entire Line is visible
Option C:	Only one end is visible
Option D:	only Partial Line is visible
Q5.	Bezier curve having end points P0 (1, 1) and P3 (3, 1).The other control point are P1 (2, 1) and P2 (4, 3).Also find the midpoint of the curve?
Option A:	(2.75,1.75)
Option B:	(3,3.25)
Option C:	(6.125,2.25)
Option D:	(3.75,1.25)
Q6.	_____ is a transformation that produces a mirror image of an object.
Option A:	Scaling

Option B:	Reflection
Option C:	Translation
Option D:	Shearing
Q7.	If the object is defined by the points A (5,5) and B (10,10) is translated by 5 units along x axis then new coordinates of point A will be
Option A:	(10,5)
Option B:	(15,10)
Option C:	(5,10)
Option D:	(5,15)
Q8.	After scaling a triangle having coordinates A (0, 0), B (5, 0), C (5, 5) by 2 units in X and 3 units in Y direction the new coordinates will be _____.
Option A:	A(0,0),B(10,0),C(10,15)
Option B:	A(0,0),B(10,15),C(10,0)
Option C:	A(0,0),B(0,10),C(15,10)
Option D:	A(2,3),B(10,0),C(10,15)
Q9.	For point representation for 2D transformation the value of third coordinate is _ -
Option A:	1
Option B:	0
Option C:	-1
Option D:	Any value
Q10.	G code to cancel Cutter Diameter Compensation is
Option A:	G40
Option B:	G41
Option C:	G42
Option D:	G43
Q11.	M code for Spindle on, Clockwise
Option A:	M01
Option B:	M02
Option C:	M03
Option D:	M00
Q12.	NC contouring is an example of
Option A:	Continuous path positioning
Option B:	Point-to-point positioning
Option C:	Absolute positioning
Option D:	Incremental positioning
Q13.	APT stands for _____
Option A:	Automatically Programmed Tool
Option B:	Any Programmed Tool
Option C:	Any Part Tool
Option D:	Automatically Part Time

Q14.	von mises stress theory is used for
Option A:	ductile metals
Option B:	brittle metals
Option C:	composites
Option D:	plastics
Q15.	2D analysis of sheet metal is a
Option A:	Plane strain condition
Option B:	Plane stress condition
Option C:	Variable stress condition
Option D:	Variable strain condition
Q16.	The sum of the B-spline basis functions for any parameter value is
Option A:	0
Option B:	1
Option C:	2
Option D:	3
Q17.	G Code for Circular interpolation, Counter clockwise
Option A:	G00
Option B:	G01
Option C:	G02
Option D:	G03
Q18.	Which one of the following is purely social aspects of CIM?
Option A:	Increase in profit
Option B:	Increase in plant efficiency
Option C:	Increase in unemployment
Option D:	Down sized workforce
Q19.	Which one of the following is not related to computer and peripheral devices used in CIM
Option A:	Sensors
Option B:	Modems
Option C:	Plotters
Option D:	Printers
Q20.	The need to meet the design and manufacturing requirements of which of the following industry after the second world war necessitated the development of CAD/CAM/CIM technologies
Option A:	Automobiles
Option B:	Aerospace
Option C:	Marine
Option D:	Locomotive
Q21.	Which one of the following is the most crucial tasks in CIM?
Option A:	Finance management

Option B:	Purchase management
Option C:	Ware housing management
Option D:	Information management
Q22.	Stereo lithography is also called as _____
Option A:	Photo polymerization.
Option B:	Optical Lithography
Option C:	Multiphoton Lithography
Option D:	UV Lithography
Q23.	Full form of FDM is _____.
Option A:	Fixed development modelling
Option B:	Fusion Development Modelling
Option C:	Focused Deposition Modelling
Option D:	Fused Deposition Modelling
Q24.	What is the other name of Photolithography
Option A:	Optical Lithography
Option B:	Stereo lithography
Option C:	Multiphoton Lithography
Option D:	Laser Lithography
Q25.	The STL file translate the part geometry from a CAD system to_____.
Option A:	CNC machine
Option B:	CMM machine
Option C:	CAPP machine
Option D:	RP machine