These are sample question...it may be or may not appear in exam

University of Mumbai

Online Examination 2020

Program: Computer Engineering

Curriculum Scheme: R 2016 (Choice Based)

Examination: Second year SEM IV

Course Code: CSC 404 Course Name: Computer Graphics

Time:1Hr. Max. Marks:50

Note for student: All questions are compulsory and carry equal marks

Q1.	Which of the following is application of Computer Graphics?
Option A:	Games and Entertainment
Option B:	Art
Option C:	Scientific Visualization
Option D:	All of Above

Q2.	what is 3D reflection of point A(10,3,13) about xy plane?
Option A:	(-10,3,13)
Option B:	(10,3,-13)
Option C:	(10,-3,13)
Option D:	(10,3,13)

Q3.	Which of the following is Active transformation?
Option A:	translation
Option B:	rotation
Option C:	scaling
Option D:	reflection

Q4.	How many electron guns are used in CRT monitor?
Option A:	1
Option B:	2
Option C:	3
Option D:	4

Q5.	if bezier curve blending polynomial having degree 5 then calculate number of control points of that curve?
Option A:	4
Option B:	5
Option C:	6
Option D:	7

Q6.	If region codes for line endpoints are 1000 and 0001 then which of the following statement is correct about line when using Cohen Sutherland algorithm?

Option A:	line is completely outside
Option B:	line is completely inside
Option C:	line is clipped by window
Option D:	line is invisible

Q7.	successive scaling is
Option A:	additive
Option B:	multiplicative
Option C:	subtractive
Option D:	divisible

Q8.	Which of the following polygon filling algorithm starts filling polygon from inside towards outside till boundary?
Option A:	Boundary fill algorithm
Option B:	flood fill algorithm
Option C:	scan line fill algorithm
Option D:	pattern fill algorithm

Q9.	what is initial decision parameter in midpoint circle algorithm?
Option A:	p=2-r
Option B:	p=1-r
Option C:	p=3-r
Option D:	p=4-r

Q10.	How many pixels are there in 200x100 image?
Option A:	200
Option B:	100
Option C:	10000
Option D:	20000

Q11.	In which of the following hidden surface removal algorithm surfaces are drawn as per their distance from viewer ?
Option A:	z-buffer
Option B:	a-buffer
Option C:	painters algorithm
Option D:	scan line algorithm

Q12.	if you add equal value of red, green and blue colors then what will be resultant color ?
Option A:	yellow
Option B:	red
Option C:	white

Option D:	pink

Q13.	why line clipping algorithms cannot be used directly for polygon clipping?
Option A:	they can clip verices only
Option B:	they can clip few edges only
Option C:	they can keep blank spaces
Option D:	they can clip one line only

Q14.	Which of the following 3d object representation method uses 3d basic objects to create complex object?
Option A:	sweep representation
Option B:	CSG
Option C:	octree
Option D:	quadtree

Q15.	calculate new coordinate of (7,2) when it is rotated about origin by 90 degree counterclockwise.
Option A:	(-2,7)
Option B:	(-2,-7)
Option C:	(-7,2)
Option D:	(-7,-2)

Q16.	in DDA line drawing algorithm if pixel value after calculation as (7.35,8.89) then what is rounded value for display?
Option A:	(7,8)
Option B:	(7,9)
Option C:	(8,8)
Option D:	(8,9)

Q17.	which of the characters generation method character is drawn using basic premitives like line,curve , circle etc.
Option A:	bitmap method
Option B:	stroke method
Option C:	starburst method
Option D:	midpoint method

Q18.	Which of following is correct pixel address representation?
Option A:	(10,12)
Option B:	(10,12.3)
Option C:	(12,12.3)
Option D:	(14,15.02)

Q19.	in area sampling method of antialiasing line width is considered
Option A:	zero
Option B:	one pixel
Option C:	infinity
Option D:	two pixel

Q20.	In perspective Projection the center of Projection is at
Option A:	infinity
Option B:	finite distance
Option C:	at space
Option D:	not defined

Q21.	CSG stands for
Option A:	common Single Geometry
Option B:	constructive Single Geometry
Option C:	constructive Solid Geometry
Option D:	common solid geometry

Q22.	Which of the following is not property of bezier curve?
Option A:	it passes through first and last control point
Option B:	sum of bezier blending function is equal to 1
Option C:	it passes through all control points
Option D:	degree of polynomial is one less than number of control points

Q23.	if window position changed then what will happen with viewpoint scene?
Option A:	it will remain same as before
Option B:	it will change
Option C:	viewpoint will change
Option D:	size of viewport will change

Q24.	DDA stands for
Option A:	Digital different analysis
Option B:	digital differential analysis
Option C:	digital differential analyzer
Option D:	Data different analysis

Q25.	Which projection is used for realistic views
Option A:	parallel Projection
Option B:	perspective Projection
Option C:	oblique Projection
Option D:	isometric Projection