Subject: Computer Graphics and Multimedia Systems

Branch: Information Technology

Class: TE Semester: V Marks: 80

Q1. Attempt all Questions. Each question has 2 marks

20M

1	What is the primary use of clipping in computer graphics?
А	Copying
В	Zooming
С	adding graphics
D	removing objects and lines

2	The process of elimination of parts of a scene outside a window or a viewport is called
А	editing
В	cutting
С	plucking
D	clipping

3	B-spline curve :
А	Allows local control
В	Does not allows local control
С	Sometimes allows local control
D	allows only global control

4	Which is not a correct classification for knot vectors in the B-spline curve?
А	Uniform
В	Open uniform
С	Non uniform
D	Classic uniform

5	What is compression?
А	To compress something by pressing it very hardly
В	To minimize the time taken for a file to be downloaded
С	To reduce the size of data to save space
D	To convert one file to another Answer

6	Which of the following would not be suitable for Lossy Compression?
А	Speech
В	Video
С	Text
D	Image

7	Which of the following is not a part of the channel coding?
А	rectangular code
В	Checksum checking
С	Hamming code
D	Huffman code

8	Algorithm used for solving temporal probabilistic reasoning
А	Depth-first search
В	Depth markov model
С	Hidden markov model
D	Breadth-first search

9	Joysticks typically have a button onthat is used to select the option pointed by the cursor.
А	Bottom
В	Left
С	Right
D	Тор

10	Vector graphics is composed of
А	Pixel
В	Path
С	Palette
D	points

Q2 Attempt any two questions out of three

А	Explain 2Dtransformation with suitable example for each.	10M
В	Explain Cohen Sutherland line clipping algorithm.	10M
с	List various polygon filling algorithm and explain boundary fill in detail.	10M

Q3 Attempt any two questions out of three

А	Explain Bresenham's line drawing algorithm. How it is different from DDA	10M
В	Find the Bézier curve given 4 control points (25.25)(45,40)(60,45)and (90,10) using the step	
	size as 0.1	10M
С	Explain different applications of computer graphics and elaborate any one in detail	10M

Q4 Attempt any two questions out of three

А	Write short note on a. Ant aliasing Techniques b. Text Clipping	10M
В	Explain the various file formats used in multimedia system	10M
С	What is multimedia? Explain the objects involved in Multimedia system and des	scribe
	various applications	10M

20 Marks

20 Marks

20 Marks