Discuss the classification of Interactive 15. (a) multimedia. Or Describe the header information appears at the beginning of a MIDI file. PART C — $(5 \times 8 = 40 \text{ marks})$ Answer ALL questions choosing either (a) or (b). Describe the operations of computer 16. (a) graphics. Or Explain the working of CRT monitors. Write note on Bresenham's line drawing 17. (a) algorithm. Or How to determine whether a point is inside or outside a given polygon? Explain. Explain the 2D Translation and Rotation 18. (a) transformation. Or coordinate Write note on homogenous system. Cohenthe algorithm for Describe 19. (a) Sutherland Clipping. Or Discuss about Polygon Clipping. Mention the applications of Multimedia. 20. Explain the compression standard for still images.

Page 4 Code No.: 41353 E

00	le No	o. : 41353 E	Sub	. Code : JMCA 63
	Septimes.			- COLUMNON
	B.C.	A. (CBCS) DEGI APRII	REE EXA L 2019.	AMINATION,
		Sixth S	lemester	
		Computer App	lication-	— Main
	COM	PUTER GRAPHI	CS AND	MULTIMEDIA
	(E	those who joined	in July	2016 onwards)
		A VALUE OF THE PARTY OF THE PAR	,	Maximum : 75 marks
im	e: Thr	ee hours		
		PART A — (10		
		Answer Al	L quest	ions.
	Choc	se the correct an	swer : provide	position information
	to th	e computer.		
	(a)	Selectors		Locators
		Event	(d)	CRT
2.		device 1	nas a rol	ling ball, a handle is
		l as a lever to ings.	change	e the potentiometer
		Track ball	(b)	Mouse
		Joystick		Light pen
3.	Too	Bronsenham's	rircle go	eneration algorithm,
э.	if (v) is the curre	ent pixe	position then the y
4	vali	e of the next pix	el positio	on is
		Y or y + 1	(b)	y alone
		Polygon	(d)	y or y - 1
	(-)		1	

Reg. No. :

Bresenham's Algo optimum raster loca	ation that	represent a	
(a) Straight line	(b)	Curve line	
(c) Polygon		Circle	
The matrix repres y = -x is	sentation	of reflection about	
1 0 0		-1 0 0	
(a) 0 -1 0	(b)	0 1 0	
0 0 1		0 0 1	
0 1 0		0 -1 0	
(c) 1 0 0	(d).	-1 0 0	
0 0 1	4 5	0 0 1	
and T_1 and T_2 are t (a) $S_1S_2 = S_2S_1$	wo transl (b)	are two scaling matrix ation matrices then $S_1T_1=S_2T_2$	
(c) $T_2S_2 = T_1S_1$	(d)	$S_1 T_1 = T_2 S_1$	
In the Cohen Sutherland line clipping algorithms, if the codes of the two point P and Q 0101 and 0001 then the line segment joining the points P and Q will be — the clipping.			
(a) Totally outsid	e (b)	Partially outside	
(a) Totally outer	4.44	0	
(c) Totally inside	(d)	Orgin	
(c) Totally inside	pping of	3D viewing, a region	
(c) Totally inside In view - port cli	pping of	3D viewing, a region umber of bits.	

Page 2 Code No.: 41353 E

- The format of storing digital audio in multimedia application is
 - (a) JPEG

(b) TIFF

(c) WAV

(d) BMP

- 10. MIDI is
 - (a) Musical Instrument Digital Interface
 - (b) Multiple Instrument Digital Interface
 - (c) Musical Interchangeable Digital Interface
 - (d) Multiple Interchangeable Digital Interface.

PART B —
$$(5 \times 5 = 25 \text{ marks})$$

Answer ALL questions choosing either (a) or (b).

11. (a) List out the graphics adapter cards along with their characteristic features.

Or

- (b) Describe the architecture of a raster scan display with a clear block diagram.
- 12. (a) Illustrate the procedure for DDA algorithms.

 Or
 - b) Write an algorithm for Bresenham circle.
- 13. (a) Explain about Inverse of basic transformations.

Or

- (b) Write note on shearing.
- 14. (a) What do you understand by windows and viewports?

Or

 (b) Give a brief note on viewing transformation matrix.

Page 3 Code No.: 41353 E