DMS-2

DIPLOMA EXAMINATION — JANUARY, 2015.

Multimedia Systems

COMPUTER GRAPHICS

Time: 3 hours Maximum marks: 75

PART A — $(20 \times 1 = 20 \text{ marks})$

Answer ALL the questions.

- 1. HSV means
 - (a) Hue, Saturation and Value
 - (b) High, Saturation and Value
 - (c) Hue, Signal and Value
 - (d) None of the above
- 2. A device for specifying text input
 - (a) STROKE
- (b) STRING
- (c) CHOICE
- (d) PICK
- 3. The eye cannot distinguish more than gray levels in an image.
 - (a) 20

(b) 50

(c) 60

(d) 30

High ——	n quality raster ———— bits per	_	aphics system hav l in the frame.
(a)	20	(b)	22
(c)	24	(d)	26
Rast	ter is a synonym for	r the	term
(a)	Array	(b)	Matrix
(c)	Model	(d)	All of above
	animations requests as a second in the a		frame
(a)	20	(b)	22
(c)	23	(d)	24
GUI	stands for		
(a)	Graphical User In	nterfa	ce
(b)	Graphical User In	nterch	nange
(c)	Guide User Inter	face	
(d)	Guide User Intere	chang	ge
Graj	phics terminals ar		reshed at the rate conds.
(a)	20 to 30	(b)	30 to 60
(c)	40 to 60	(d)	50 to 60
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TIIP	at function are used		
(a)	Control the data devices	flow	from these interactive
(b)	Process the data devices	flow	from these interactive
(c)	Both (a) and (b)		
(d)	None of these		
The	3D Clipping Win region.	dow	boundaries to define
(a)	21	(b)	23
(c)	25	(d)	27
	phing software		
Mor	pilling software		
Mor (a)	Morph man	(b)	Morph buster
	-	(b) (d)	Morph buster All the above
(a) (c) A re	Morph man Smart morph esolution of 640 by ita wall to provide	(d) y 480 e an	-
(a) (c) A re	Morph man Smart morph esolution of 640 by ita wall to provide	(d) y 480 e an cene	All the above O can be used in the overall resolution of
(a) (c) A remed	Morph man Smart morph esolution of 640 by lia wall to provide static se	(d) y 480 e an cene	All the above Ocan be used in the overall resolution of (or) animation. 3300 by 2500
(a) (c) A remed (a) (a) (c)	Morph man Smart morph esolution of 640 by lia wall to provide static se	(d) y 480 e an cene (b) (d)	All the above O can be used in the overall resolution of (or) animation. 3300 by 2500 3500 by 2500
(a) (c) A remed (a) (a) (c)	Morph man Smart morph esolution of 640 by lia wall to provide static se 3200 by 2400 3400 by 2400	(d) y 480 e an cene (b) (d)	All the above O can be used in the overall resolution of (or) animation. 3300 by 2500 3500 by 2500
(a) (c) A remed (a) (a) (c) Screen	Morph man Smart morph esolution of 640 by lia wall to provide static se 3200 by 2400 3400 by 2400 een locations are refe	(d) y 480 e an cene (b) (d)	All the above O can be used in the overall resolution of (or) animation. 3300 by 2500 3500 by 2500
(a) (c) A remed (a) (c) Screen (a)	Morph man Smart morph esolution of 640 by lia wall to provide static se 3200 by 2400 3400 by 2400 een locations are refe Hexa decimal value	(d) y 480 e an cene (b) (d)	All the above O can be used in the overall resolution of (or) animation. 3300 by 2500 3500 by 2500
(a) (c) A remed (a) (c) Screen (a) (b)	Morph man Smart morph esolution of 640 by lia wall to provide static se 3200 by 2400 3400 by 2400 een locations are refe Hexa decimal value Integer value	(d) y 480 e an cene (b) (d)	All the above O can be used in the overall resolution of (or) animation. 3300 by 2500 3500 by 2500

Input function are used for

9.

14.	General system consist of				
	(a)	pull-down and pop-up menus			
	(b)	icons			
	(c)	pointing device			

15. Locator device for specifying

all the above

- (a) A co-ordinate position
- (b) Text input

(d)

- (c) Scalar value
- (d) Menu options

16. Primary colors are

- (a) Cyan, Magenta, Yellow
- (b) Red, Green, Blue
- (c) Red, Green, Black
- (d) None

17. The Depth buffer method is also called

- (a) A Buffer method
- (b) Z Buffer method
- (c) BSP Tree method
- (d) None of the above

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- 18. Cohen-Sutherland Line clipping algorithm can compare quickly, it bit 1 is the sign of
 - (a) (Ymax Y)
- (b) (Ymin Y)
- (c) (Y Y max)
- (d) (Y Ymin)
- 19. DVST stands for
 - (a) Direct View Storage Tubes
 - (b) Duplicate View Storage Tubes
 - (c) Digital View Storage Tubes
 - (d) None of these
- 20. The projection is perpendicular to the view plane is called
 - (a) Oblique projection
 - (b) Orthographic parallel projection
 - (c) Isometric projection
 - (d) None

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

Answer any FIVE questions.

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- 21. Explain Raster Scan Display processor.
- 22. Briefly explain polygon clipping.
- 23. Explain Back space detection method.

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- 24. Explain Parametric representations.
- 25. Explain DDA Line drawing algorithm.
- 26. Explain various text clipping methods.
- 27. Explain window to view port mapping.
- 28. Explain Z-buffer method.

PART C —
$$(3 \times 10 = 30 \text{ marks})$$

Answer any THREE questions.

- 29. What is Morphing? Explain briefly.
- 30. Explain the Parallel projection method.
- 31. Explain the Video display devices.
- 32. Write Cohen-Sutherland line clipping algorithm.
- 33. Write Bresenham line drawing algorithm.
