CS/BCA(N)/ODD/SEM-3/BCAN-303/2019-20



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Paper Code: BCAN-303

PUID: 03497 (To be mentioned in the main answer script)

COMPUTER GRAPHICS

Full Marks: 70 Time Allotted: 3 Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own

words as far as practicable.

GROUP - A (Multiple Choice Type Questions)

- Choose the correct alternatives for any ten of the $10 \times 1 = 10$ following: Personal computer become powerful during the late i) 1960 **b**) 1970 a) d) 1950. 1980 Display card are
 - - **VGA** a)

- b) EGA
- both (a) & (b) c)
- d) none of these.

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iii)		The RGB model displays percentage of the visible band as compared to CMYK.				
•	a)	lesser	b)	larger		
	c)	medium	d)	none of these.		
iv)	RC	BB true colour model	has c	olor depth		
•	a)	24 bit	b)	32 bit		
	c)	64 bit	d)	none of these.		
v)	DU	JST means				
a a f	a)	direct view storage	tube			
	b)	domain view storag	ge tube			
	c)	direct view store tu	be.			
•	d)	none of these.				
vi)	The	e second grid in DUS	T is ca	ılled		
	a)	phosphor	b)	storage mesh		
*.	c)	collector	d)	none of these.		
vii)	Cor	nputer graphics is t	used i	n many DTP software		
	a)	Photoshop	b)	Paint brush		
	c)	both (a) and (b)		none of these.		
viii)	The	standardization is r				
	a)			ams more portable		
	b) .	to increase their uti	ility	portable		
	c)			different application		
· ·	d)	all of these				
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ix)	Graphics data is computed by processor in form of					
	a)	electrical signals	b)	_		
	.c)	digital signals	d)	none of these.		
x)	Non impact use of various techniques combines three colour pigment to produce a range of colour patterns					
	a)	Cyan, magenta and	yello	»		
	b)	Cyan, white and bla		.5		
	c)	Cyan, white and ye	llow			
	d)	Black, magenta and	i yello	ow.		
xi)	The division of the computer screen into rows and					
	columns that define the no. of pixels to display a					
		ture is called				
	a)	persistence				
	b)	resolution				
·	c)	encapsulated post	script			
	d)	none of these.				
xii)	LCD is a device of type					
	a) e	missive	b) 1	non emissive		
•	c) g	as discharge	d) 1	none of these.		
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GROUP - B (Short Answer Type Questions)

Answer any three of the following. $3 \times 5 = 15$

- 2. What is a random scan system?
- 3. Explain how raster scan is different from random scan?
- 4. What is reflection?
- 5. Differentiate between interpolation spline and approximation spline.
- 6. Define Projection.

GROUP - C

(Long Answer Type Questions)

Answer any three of the following. $3 \times 15 = 45$

- 7. Discuss (i) direct view storage tubes and (ii) liquid crystal displays. 8 + 7
- 8. Discuss in details any one line drawing algorithm.
- 9. Describe in detail about the DDA scan conversion algorithm.
- 10. Explain Ellipse generating Algorithm.
- 11. What is the purpose of shading? Explain in detail any one shading model.3 + 12

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