## Third Year B.C.A (Semester - II) Examination Paper - 15BCA311

## **Computer Graphics Multimedia & Animation**

Time: Three hours]

[Full Marks - 60

**N.B.:** i) All questions carryequal marks

- ii) Due credit will be given to neatness & adequate dimensions.
- iii) Illustrate your answer with the help of neat sketches, wherever necessary.
- iv) Use Blue/Black ink/refill only for writing the answer book
- O.1 Choose correct alternatives.

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- a) Aspect ratio means.
  - i) Number of pixels
  - ii) Ratio of vertical point to horizontal points
  - iii) Ratio of horizontal points to vertical points
  - iv) Both(ii) & (iii)
  - b) Expansion of line DDA algorithm
    - i) Digital difference analyzer
    - ii) Direct differntial analyzer
    - iii) Digital differential analyzer
    - iv) None of above
  - c) For 2D transformation the value of third coardinate is W = ?
    - i) 1

ii) 0

iii) -1

- iv) None of the above
- d) \_\_\_\_\_ is used to compress video.
  - i) MPEG

- ii) JPEG
- iii) Either (i) or (ii)
- iv) None of the above

	e)	Graphics and image processing technique used to produced a transformation of one object into other called	is	- /	Describe cohen - sutherland algorithm.  Describe viewing transformation.	6 5
		i) Animation ii) Morphing		Q.8 a)	Explain multime dia with their components.	6
		iii) Tuning iv) None of the abo	ve		•	5
Q.2	a)	What is computer Graphics? Explain the major components are needed for computer graphics.	6		OR	
	b)	What do you mean by coordinate system? Explain		Q.9 a)	What does data compression mean? Explain with	
		any two coordinate system.	5	,	their method.	6
				b)	Explain multime dia software tools.	5
		OR				
Q.3	a)	Explain the following.	6	Q.10 a)	What is Computer Animation? Explain history of	_
	,	i) Resolution ii) Color depth iii) Refresh Ra	te	1 \	computer animation.	6
	b)	Explain file format in detail	5	0)	Explain the following i) Tweening ii) Morphing	5
Q.4	a)	Describe the difference between Raster scan and				
ζ	α)	Random scan display.	6		OR	
	b)	Write DDA line drawing algorithm.	5	O 11 a)	Explain any two method for controlling animation.	6
				- /	Explain which hardware and software tools used in	Ü
		OR		5)	animation.	5
Q.5	a)	Explain CR Tin detail with neat label diagram.	6			
	b)	Write a program to drawellipse and explain it.	5			
Q.6	a)	What is transformation? Explain it with their differen	nt			
		type.	6			
	b)	Explain the need of homogenous coordinate with				
		example.	5			
		OR			***	

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