Exam. Code : 0 0 3 1

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Bachelor of Computer Applications 5th Semester Examination

1127

PRINCIPLES OF COMPUTER GRAPHICS AND MULTIMEDIA TECHNOLOGY Paper: BCA-502

Time: 3 Hours] [Max. Marks: 90

Note: Attempt five questions in all by selecting one question from each Section. Entire Q. No. 9 is compulsory.

Section-A

- 1. (a) Define Computer Graphics. How it has brought revolution in the field of Education and Training?
 - (b) What is Computer Aided Design? What advantages does it offer over manual design?
 What are its limitations?

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- 2. (a) Define and describe Raster Scan Monitors. How do they work? Also explain how are they different from Random Scan Monitors?
 - (b) List out and explain the working principles of commonly used Input and Output devices for Graphics.9,9

Section-B

- 3. (a) What do you understand by AutoCAD?

 Explain its anatomy and various features.
- (b) What are the different drawing primitives of AutoCAD? Explain the usage of any five. 9,9
- 4. (a) Name the primitives available in C language for setting character and text attributes. Also describe the purpose and syntax of them.
 - (b) Write a menu driven program in C language to draw Line, Rectangle, Circle and Ellipse. 9,9

Section-C

5. (a) What is Multimedia? What are the elements of a Multimedia System? Also explain the various barriers that arise in its growth.

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(2)

(b)	Describe several widely available platforms which	
	offer support for Multimedia Applications.	9,9
6. (a) (b)	Describe the various stages of Multimedia	
	Application Development and the development tools used at each stage.	
	Describe the various categories of Multimedia	
	Development tools. Explain the rationale behind	
	using them. 19 In serumed man was midged (9,9
	Section-D	
7. (a) (b)	Differentiate between lossy and lossless	
	Compression. Explain any lossless compression	
	algorithm with example.	
	Name and describe various Audio and Video	
	file formats.	9,9
8. (a)	Which selection tools are available in	
	Photoshop? How are they used? Explain them	
	briefly with examples of scenarios in which	
	they should be preferred.	
(b)	Describe the commonly used features of	
	Macromedia Director to create a multimedia	
	movie.	9,9
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Compulsory Question

- 9. Entire question is compulsory. Write short answers.
 - (a) What do you understand by resolution of a monitor? How will it affect picture quality?
 - (b) What is Morphing?
 - (c) What is the purpose of initgraph() function?
 - (d) Explain two main features of Photoscape.
 - (e) Which kinds of files compress better GIF,

 JPEG or PNG? Justify your answer.
 - (f) What do you mean by MIDI interface ?
 - (g) What is Sampling?
 - (h) What is Tweening?
 - (i) Name different color models used in Photoshop.

 $9 \times 2 = 18$