

2022

COMPUTER SCIENCE — GENERAL

Paper : SEC-B-X-1

(Multimedia and its Application)

Full Marks : 80

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

Answer *question nos. 1 & 2* and *any four* from the rest.

1. Answer *any ten* questions :

2×10

- (a) What is Multimedia?
- (b) What is GUI?
- (c) Name the multimedia authoring tools.
- (d) What is hyper text?
- (e) What is SVG?
- (f) "Simple Graphics with large patches of solid color often look better when using GIF format rather than using JPEG format." — Why?
- (g) Define CCD.
- (h) What is Non-linear Multimedia?
- (i) Define dithering.
- (j) Name any two video conferencing softwares.
- (k) What is kerning?
- (l) Name any two audio file formats used in multimedia systems.
- (m) What is key frame?
- (n) Define pixel.
- (o) What is MPEG?

2. Answer *any four* questions :

5×4

- (a) Attributes of Font
- (b) Principles of Animation
- (c) Hardware Peripherals needed in Multimedia

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- (d) QoS. parameters
  - (e) Web images
  - (f) Audio file formats used in Multimedia.
3. (a) Name a lossless data compression technique used in text compression.  
(b) Explain, with an example, the working of the same. 2+8
4. (a) Compare between Bitmaps and Vector Drawn Objects.  
(b) What is MIDI? 8+2
5. (a) Describe the creation of Digital video.  
(b) How is point-to-point video conferencing different from multipoint video conferencing? 8+2
6. (a) Name the three analog video standards universally known and draw a comparison between them.  
(b) List the limitations in creating images on a computer destined for a television screen. 4+6
7. (a) Why does VOIP depend on code cs for successful video conferencing?  
(b) Why do we use dithering in multimedia?  
(c) What are the components needed in making of a good multimedia project? 4+3+3
8. (a) How the delivering of multimedia is done?  
(b) Why is World Wide Web considered as an example of hypermedia and not multimedia? 8+2
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