

This question paper contains 2 printed pages]

AA—51—2019

FACULTY OF SCIENCE

B.Sc. (CS) (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

COMPUTER SCIENCE

[S3.5 (DES)] (Elective : 2)

(Multimedia)

(Monday, 18-11-2019)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

- N.B. :—* (i) All questions are compulsory.
(ii) Figures to the right indicate full marks.
(iii) Assume suitable data, if required.

1. Attempt any *five* of the following : 3×5=15
- (a) What are multimedia elements ?
 - (b) What is data compression in multimedia ?
 - (c) Explain audio file formats.
 - (d) Explain CD-I.
 - (e) Define Bitmaps in image and graphics.
 - (f) What is video signal representation ?
 - (g) What is D-frame in MPEG ?
2. Attempt any *two* of the following : 5×2=10
- (a) What are multimedia applications ?
 - (b) Describe Global structure of multimedia.
 - (c) Explain in detail advantages of multimedia.
3. Attempt any *two* of the following : 5×2=10
- (a) Discuss memory and storage devices.
 - (b) What is basic compression techniques—Huffman encoding ?

P.T.O.

- (c) Write different types of images coding in MPEG.
4. Attempt any *two* of the following : 10
- (a) Explain in detail compact disk.
- (b) What are the limitations of CD-ROM technology ?
- (c) Explain in detail DVD-ROM.
5. Attempt any *two* of the following : 10
- (a) Explain MIDI basic concept.
- (b) Explain computer representation of sound.
- (c) What is Digital audio ?
6. Attempt any *two* of the following : 10
- (a) Explain colors in image and graphics.
- (b) What is image format ?
- (c) Explain image formats supported on IRIS Computer.
7. Attempt any *two* of the following : 10
- (a) Explain visual representation in video and animation.
- (b) Explain any *two* different languages for describing animations.
- (c) What is High-Definition System ?