



US – 423

VI Semester B.A./B.Sc. Examination, May 2017
(Semester Scheme)
(Repeaters) (2013-14 and Onwards)
COMPUTER SCIENCE – VIII
Multimedia Technology

Time : 3 Hours

Max. Marks : 70/60

- Instructions :** 1) 2013-14 Onwards students has to attend **all** Sections.
2) Prior to 2013-14 have to answer **A, B and C** only.

SECTION – A

Answer **any ten** questions. **Each** question carries **one** mark.

(1×10=10)

1. What is multimedia ?
2. Define bit depth and pixel depth.
3. What is meant by sampling ?
4. Define the term "Unformatted text" with an example.
5. What is MIDI ?
6. What is the bit rate in case of CD-Quality Audio ?
7. What is meant by bitmap image ?
8. Name any two bitmap formats.
9. What are voiced sounds ?
10. Define loudness.
11. What is a macroblock ?
12. What is distortion ?

SECTION – B

Answer **any five** questions. **Each** question carries **three** marks.

(3×5=15)

13. Explain hypertext.
14. Explain CD quality audio.

P.T.O.



15. Explain Nyquist's theorem.
16. Explain arithmetic coding.
17. Explain raster scan principle.
18. Explain DPCM.
19. Write a note on MIDI messages.

SECTION – C

Answer **any five** questions. **Each** one carries **seven** marks.

(7×5=35)

20. Discuss different HDTV formats.
21. Explain analog to digital conversion.
22. Explain TIFF.
23. Explain the working of a digital camera and scanner.
24. Explain adaptive predictive coding and code excited LPC.
25. Explain LZ and LZW coding.
26. Explain different types of frames.
27. Explain DCT (Discrete Cosine Transform).

SECTION – D

Answer **any one** question. **Each** question carries **ten** marks.

(2013-14 and Onwards students only)

(1×10=10)

28. Write a note on :

- a) Audio compression
- b) Digitized documents
- c) TIFF.

(4+3+3)

29. a) Explain multimedia applications.

b) Block diagram of a MPEG coder.

(6+4)