MS – 317

VI Semester B.A./B.Sc. Examination, May/June 2014
(Semester Scheme)
COMPUTER SCIENCE – VIII
Multimedia Technology
(F – 70 – 2013 – 14 and Onwards/R – 60 Prior to 2013 – 14)

Time : 3 Hours   Max. Marks : 70/60

Instructions : I) *Freshers (2013-14) have to answer all the A, B, C, D*
Sections which carries 70 marks.
II) *Repeaters (Prior to 2013-14) have to answer Sections A, B*
and C only which carries 60 marks.

SECTION – A

Answer **any ten** questions. **Each** question carries **one** mark.   **(1×10=10)**

1. What is meant by multimedia ?

2. Define Amplitude.

3. Expand GIF and JPEG.

4. Define loudness.

5. How is lossless compression different from lossy compression ?

6. What is meant by aspect ratio ?

7. What is MIDI ?

8. Give the bandwidth of music audio signal.

9. What is ODEC ?

10. Write the advantage of vector image.

11. What is a macro block ?

12. What is distortion ?

P.T.O.

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SECTION – A

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SECTION – B

13. Explain any two multimedia applications.   (3×5=15)

14. Explain Nyquist theorem.

15. What is unformated text ? Explain.

16. Write a note on color principles.

17. Briefly discuss Raster scan principle.

18. Differentiate between vector and bitmap images.

19. Discuss different types of picture frames.

SECTION – C

20. Explain the process of analog to digital conversion.   (7×5=35)

21. Explain Huffman's coding with suitable illustration.

22. Explain the working of scanner and digital camera.

23. Discuss in detail Broadcast Television.

24. Discuss the various phases of JPEG compression.

25. Discuss the principles of linear predictive coding with a neat block diagram.

26. Explain following concepts in detail :   (3+4)
    a) Digitized documents   b) TIFF.

27. Write a note :   (2+5)
    a) Streaming video   b) MPEG and its standards.

SECTION – D

Answer **any one** question. **Each** question carries **ten** marks.   (1×10=10)

[2013-14 and onwards students only]

28. a) Explain different formats of video compression techniques.

    b) Write a note on Hyper text.   (7+3)

29. Explain :
    a) DPCM   b) Code-excited LPG.   (5+5)

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SECTION – B

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25. Discuss the principles of linear predictive coding with a neat block diagram.

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27. Write a note :   **(2+5)**
    a) Streaming video   b) MPEG and its standards.

SECTION – D

Answer **any one** question. **Each** question carries **ten** marks.   **(1×10=10)**

[2013-14 and onwards students only]

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    b) Write a note on Hyper text.   **(7+3)**

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    a) DPCM   b) Code-excited LPG.   **(5+5)**

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