

FACULTY OF ENGINEERING
TE(IT) Examination - DEC – 2014
Multimedia Computing(Revised)

[Time: THREE Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

- i) *Figures to the right indicate full marks.*
- ii) *Assume suitable data if required and state it clearly.*
- iii) *Question number 1 & 6 are compulsory. Then attempt any two questions from each section from remaining*

SECTION A

- Q1 Solve any five questions.
- a) Distinguish between author and audience. (02)
 - b) What is meant by horizontal scan rate of a monitor? (02)
 - c) What is meant by aspect ratio of a monitor? (02)
 - d) What are the advantages of hypertext over other forms of texts? (02)
 - e) What do you mean by primary and secondary colors in color model? (02)
 - f) Differentiate between tone & Note. (02)
 - g) What is meant by frames and frames rate in connection to motion video? (02)
- Q2
- a) What is diode? Explain construction and working of an LED TV. (07)
 - b) What is MIDI? How different MIDI devices can be connected to a computer? (08)
- Q3
- a) What is need for color models? Explain CMYK color model in detail. (07)
 - b) Explain H.261 & H.263 video file formats in detail (08)
- Q4
- a) What is virtual reality? Explain various forms of virtual reality (07)
 - b) Explain construction and working of color analog video camera. (08)
- Q5
- a) Discuss the role of testing and feedback stages in improving the quality of the presentation. (04)
 - b) What is the need for digital representation? Explain the role of sampling in analog to digital conversion. (04)
 - c) Define image in connection to multimedia. Explain how an image is acquired through digital camera? (07)

SECTION-B

- Q6 Attempt any five questions
- i) What is meant by compression? (02)
 - ii) Enlist the uses of MPEG-2. (02)
 - iii) What is DVD-RAM? (02)
 - iv) Distinguish between bandwidth and load of network. (02)
 - v) What do you mean by multimedia over wireless network? (02)
 - vi) What is meant by progressive encoding mode of operation? (02)
 - vii) Define CD-R and CD-RW. (02)
- Q7
- a) Explain in brief the various steps in the MPEG compression standard. (08)
 - b) Explain various trends in wireless interactive multimedia. (07)
- Q8
- a) Explain DPCM and ADPCM coding scheme with suitable example. (08)
 - b) Explain DVD specifications in detail. (07)

- Q9 a) Explain i) CD & DVD (08)
ii) Components of multimedia network communication technique.
- b) Describe Huffman coding with example. (07)
- Q10 a) Explain media-on-demand technology (08)
i) interactive TV
ii) set top box
- b) How can data be written on a CD-R? What are its limitations? (07)