# END TERM EXAMINATION

**FIFTH SEMESTER [MCA ] DECEMBER 2015**

Paper Code: MCA313 | Subject: Multimedia Technologies

Time: 3 Hours | Maximum Marks: 60

**Note: Attempt any five questions including Q no.1 which is compulsory. Select one question from each unit.**

Q1    Answer all the following questions briefly:-                         (2x10=20)
- (a) Define Vector and Bitmap Images.
- (b) Differentiate between Hyper Media and Hypertext.
- (e) What do you mean by Delivery Vehicles?
- (d) What is virtual reality?
- (e) Who all make Multimedia Development Team?
- (f) What is WWW?
- (g) Write briefly about digital broadcasting.
- (h) What is meant by Multimedia Highway?
- (i) Define term Media Games.
- (j) What is the use of web page maker?

## UNIT-I

Q2    (a) What is multimedia? What are its application areas? Discuss the role of multimedia technology in the field of education?                (5)
    (b) How skills and training is required in multimedia system?       (5)

Q3    (a) List and describe the major multimedia hardware peripherals    (5)
    (b) Explain how authoring tools and presentation tools help in making multimedia projects?                                              (5)

## UNIT-II

Q4    (a) What are the main advantages of digital system over analog systems? Describe encoding and quantization in detail.               (5)
    (b) What are the various modes of JPEG encoding schemes? Explain JPEG image compression standard?                                     (5)

Q5    (a) Differentiate between lossy and lossless compression. Discuss the advantages and disadvantages of each.                           (5)
    (b) What is principle of animation? What are the various animation techniques? Write in brief.                                          (5)

## UNIT-III

Q6    (a) Explain the working principle of web browsers?                 (5)
    (b) Explain media communication, media consumption and media entertainment.                                                          (5)

Q7    (a) What are plug-ins? Explain in detail.                          (5)
    (b) Explain multimedia on Internet.                                 (5)

## UNIT-IV

Q8    (a) Explain the production life cycle of multimedia project.       (5)
    (b) How is data written on a CD. Explain the principle.             (5)

Q9    Write short notes on **any two** of the following:-                (2x5=10)
- (a) Video on demand
- (b) Digital Radio
- (c) Interactive Television

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