



RES - 02

B.C.A. (Semester – VI) (Revised) Examination, April 2014
MULTIMEDIA TECHNOLOGY

Duration : 2 Hours

Total Marks : 50

Instructions : 1) All questions are compulsory.

2) Figures to the right indicate marks.

1. A) Fill in the blanks : (5x1=5)
- i) _____ is a combination of text, graphic, sound, animation and video that is delivered interactively to the user by electronic or digitally manipulated means.
 - ii) The Quick Time format is developed by _____ and is a common format on the Internet.
 - iii) Full form of GIF is _____
 - iv) _____ is the lowest-pitched sound we can hear.
 - v) AVI stands for _____
- B) Answer the following in **one** or **two** statements : (5x1=5)
- i) Define linear multimedia.
 - ii) Give any two examples of print media.
 - iii) What is Graphic Media ?
 - iv) Define Frequency.
 - v) Define frame rate.
2. Answer the following : 10
- A) Define hypermedia with an example. 2
 - B) Explain 'text' as an element of multimedia. Mention 2 areas where multimedia can be used. 3
 - X) Differentiate between print media and electronic media. (any 5 points) 5
- OR
- Y) Define web-based multimedia and discuss its advantages and disadvantages (2 each). 5

P.T.O.



3. Answer the following : 10
- A) Define raster graphics. Give 2 examples. 2
- B) What is vector graphics ? Explain its advantages. 3
- X) Explain RGB and CMYK colour mode. 5
- OR
- Y) Write short notes on JPEG and RAW file formats of graphic media. 5
4. Answer the following : 10
- A) Define Sound (Audio). Give 2 common audio formats. 2
- B) Calculate the size of 16 bit stereo (2 channels) audio of 180 seconds with sampling rate 44.1 KHz. 3
- X) Define Compression, compression ratio and compression rate. Explain briefly about lossy compression. 5
- OR
- Y) Write short notes on .wav file format. 5
5. Answer the following : 10
- A) Define video bit rate and video resolution. 2
- B) What are the advantages of MPEG-4 over SWF file format ? 3
- X) Define codec. Discuss interframe and intraframe compression in brief. 5
- OR
- Y) Write a short note on the use of Intra, predictive and bidirectional frame. 5