



B.C.A. (Semester – VI) Examination, April 2016
MULTIMEDIA TECHNOLOGY

Duration : 2 Hours

Total Marks : 50

Instructions : 1) **All** questions are **compulsory**.
2) Figures to the **right** indicate marks.

1. A) State whether the following statements are **True** or **False** : (5×1 = 5)

- i) Movies are examples of linear multimedia.
- ii) RGB is called as additive colour model.
- iii) 10 KHz is the highest-pitched sound human ear can hear.
- iv) MPEG-4 is better than SWF file format.
- v) Magazine is an example of web-based multimedia.

B) Answer the following in **one** or **two** statements **each** : (5×1 = 5)

- i) Define hypermedia.
- ii) What is metagraphics ?
- iii) Give any two examples of audio formats.
- iv) What is temporal redundancy ?
- v) Define web media.

2. Answer the following :

- A) What is multimedia ? Give any two applications of multimedia in the field of education. 2
- B) Explain 'video' as an element of multimedia. 3
- C) Differentiate between print media and electronic media. 5

3. Answer the following :

- A) Why is the GIF file format not suitable for photographic images ? 2
- B) Differentiate between lossy and lossless compression. 3
- C) What are vector graphics ? Discuss advantages and disadvantages. 5



4. Answer the following :

A) Define bit rate. Calculate bit rate of audio of 8 bits with 8 KHz.

2

B) What are the advantages of using digital audio ?

3

C) Explain the mechanism of audio streaming.

5

5. Answer the following :

A) Define frame rate and video bit rate.

2

B) Explain matte painting visual effect.

3

C) Write short note on use of intra, predicate and bi-directional frame.

5