



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

(3x1=3)

2

3

5

2

3

5

P.T.O.