



B.C.A. (Semester – VI) Examination, April 2018
MULTIMEDIA TECHNOLOGY

Duration : 2 Hours

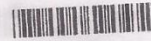
Total Marks : 50

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

1. A) Define the following : (5×1=5)
- i) Multimedia
 - ii) Raster graphics
 - iii) Wavelength
 - iv) Visual effects
 - v) Social media.
- B) Answer the following in **one** or **two** statements : (5×1=5)
- i) Give the full form of AVI.
 - ii) Give 2 examples of non-linear multimedia.
 - iii) What is the audible range of human ear ?
 - iv) RGB is also known as _____ colour model.
 - v) Which graphic file format is lossless if image has fewer than 256 colours ?
2. Answer the following : (10)
- A) Explain any 2 advantages of using web-based multimedia. 2
 - B) Mention 3 advantages and 3 disadvantages of using newspaper as media of communication. 3
 - C) Explain the application of multimedia in the field of education and entertainment using suitable examples. 5
3. Answer the following : (10)
- A) Why PNG is better than GIF file format ? 2
 - B) Explain advantages and disadvantages of vector graphics. 3
 - C) Explain different types of colour modes. 5

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4. Answer the following : (10)
- A) Mention 4 different disciplines of audio effects. 2
 - B) Calculate the size of 16 bit stereo audio of 2 minutes with sampling rate 44.1 KHz. 3
 - C) Explain the concepts of compression and its types in context of audio media. 5
5. Answer the following : (10)
- A) What do you mean by symmetrical and asymmetrical compression ? 2
 - B) Explain intra, predicate and bi-directional frames. 3
 - C) Write short note on SWF file format. 5

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