

**B.TECH SEM – VII (2007 COURSE) (COMPUTER ENGG.) :**

**SUMMER - 2018**

**SUBJECT : ELECTIVE – I: MULTIMEDIA TECHNIQUES**

Day : **Friday**  
Date : **25/05/2018**

**S-2018-2772**

Time : **02.30 PM TO 05.30 PM**  
Max. Marks : 80

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**N.B.:**

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
  - 2) Answers to both the sections should be written in **SEPARATE** answer book.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
  - 4) Figures to the right indicate **FULL** marks.
  - 5) Assume suitable data if necessary.
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**SECTION – I**

- Q.1** a) Define multimedia system. Describe characteristics of multimedia system. [05]  
b) Explain in detail GIF file format. [05]  
c) Sound recovery is important in streaming multimedia applications. Justify? [04]
- Q.2** a) Describe in detail applications of multimedia system. [07]  
b) Describe in detail different building blocks of multimedia system. [06]
- Q.3** a) Explain in detail characteristics of multimedia communication system. [07]  
b) Describe in detail features of multimedia file system. [06]
- Q.4** Draw a neat diagram and describe compounds of speech recognition system. [13]  
Also explain the steps involved in speech recognition in detail.

**SECTION – II**

- Q.5** a) Explain the term “Still Image”. [05]  
b) Define virtual reality. Explain characteristics of VR system. [05]  
c) Explain any two magnetic storage devices. [04]
- Q.6** Explain the term ‘Video streaming’. Describe its need and also explain [13]  
different video streaming techniques.
- Q.7** a) Explain in detail complete process of encoding and decoding using Run length [07]  
encoding. List its advantages and disadvantages.  
b) List and explain different VR devices used to develop a VR system application. [06]
- Q.8** a) Describe in detail requirements of multimedia storage systems. [07]  
b) Explain the working of an optical device with example. [06]

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