

**B.TECH. SEM -V (COMPUTER) 2014 COURSE (CBCS) :
SUMMER - 2018**

SUBJECT: Elective I: 1) MULTIMEDIA & MOBILE APPLICATION

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

S-2018-2338

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagram **WHEREVER** necessary.
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Q.1 Describe in detail various challenges in developing multimedia system. [10]

OR

Describe the need of data compression in developing multimedia systems and compare lossy and loss-less data compression.

Q.2 Illustrate with example Huffman coding algorithm. List its advantages and disadvantages. [10]

OR

List and explain various file formats used to store image data.

Q.3 Explain in detail the process for digitizing an audio and video signal. [10]

OR

Discuss in detail the characteristics of multimedia database. Illustrate the challenges in handling such databases in cloud-based application

Q.4 Explain in detail basic VR system structure and discuss the requirements of a VR system. [10]

OR

Discuss in detail distributed multimedia application design issues.

Q.5 Explain the term 'Media-on-Demand'. Describe its need discuss various application areas. [10]

OR

Discuss in detail various issues in developing multimedia content management systems.

Q.6 Explain the various GUI layouts available for android application development? Also state which is the default layout? [10]

OR

Explain in detail characteristics of mobile databases.