

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(ECE) (E-II) (Sem.-2)

MULTIMEDIA COMMUNICATION SYSTEMS

Subject Code : EC-513

M.Code : 36214

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT.
2. Each question carries TWENTY marks.

- | | | |
|----|--|----|
| 1. | a) Define the term multimedia communication. State the basic form of representing media types. | 10 |
| | b) Explain packet switching in detail. | 10 |
| 2. | a) Explain source encoding and channel encoding methods in detail. | 10 |
| | b) What are the different protocols used in multimedia communication? | 10 |
| 3. | a) What are the bandwidth and compression issues in multimedia communication? | 10 |
| | b) Write a protocol stack of various adjunct protocols that is used by IP. | 10 |
| 4. | a) Explain cell format of ATM and frame relay. | 10 |
| | b) Explain classical IP over ATM (IPOA) in detail. | 10 |
| 5. | a) Explain lossy and lossless compression in detail. | 10 |
| | b) Define three types of texts. Discuss the hyper text that enables integrated set of documents. | 10 |
| 6. | With the help of encoder and decoder diagram identify the main stages of operation of JPEG and explain each stage in detail. | 20 |
| 7. | a) Explain the various challenges for encryption and decryption of multimedia file formats. | 10 |
| | b) Differentiate between BMP, PNG and TIFF multimedia file formats. | 10 |
| 8. | Explain in detail | |
| | a) Enterprise network | 6 |
| | b) High speed modems | 8 |
| | c) Video conferencing | 6 |

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.