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8818**BT-8/M12****MULTIMEDIA COMMUNICATIONS****Paper-ECE 406E***Time allowed : 3 hours]**[Maximum marks : 100**Note : Attempt five questions in all.***Unit-I**

1. (i) What are multimedia networks ? How are these different from the telecommunication networks ? 10
- (ii) Why is digitization required ? What are the various methods of digitization ? Describe one such method. 10
- 2 (i) How are (i) audio and (ii) video represented for multimedia applications ? 10
- (ii) What are multimedia applications ? List these . Discuss audio applications . 10

Unit-II

3. (i) Why is compression required for multimedia elements ? 5
- (ii) Discuss TIFF type of compression for images. 15
4. (i) How is Lemple-ziv coding performed ? Discuss with example . 12
- (ii) How is dynamic Huffman coding different from static Huffman coding ? 8

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8818**Unit-III**

5. (i) Does audio compression lead to information loss ? Discuss to support your answer . 8
- (ii) Discuss MPEG audio compression. 12
6. (i) Using a block diagram describe differential PCM. 10
- (ii) How is video compressed ? Discuss using MPEG Standard. 10

Unit-IV

7. (i) How does internet work ? What are its applications ? Discuss. 10
- (ii) Discuss domain name structure ? How is it used for domain name system for internet ? 10
8. (i) What is the structure of email message ? Discuss the method involved in electronic mailcontent transfer . 10
- (ii) What is the principle of internet telephony ? Discuss its working. 10

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