Roll No. Total No. of Pages: 01 Total No. of Questions: 08 M.Tech.(ECE) (Sem.-4) **MULTIMEDIA COMMUNICATION SYSTEM** Subject Code: EC-513 M.Code: 36214 Time: 3 Hrs. Max. Marks: 100 **INSTRUCTIONS TO CANDIDATES:** Attempt any FIVE questions out of EIGHT. Each question carries TWENTY marks. Q1. a) Explain the importance of protocols and standards in multimedia communication. 10 b) Briefly compare circuit switched and packet switched networks. 10 Q2. List and explain various multimedia communication techniques in detail. 20 Q3. a) Write a brief note on source encoding in digital communication. 10 b) Explain MPEG Audio/Video standards in detail. 10 Q4. Discuss image encoding and decoding techniques with suitable diagrams. 20 Q5. a) Describe image compression techniques in detail. 10 b) Write a brief note on the significance of information representation in multimedia. 10 Q6. List and explain different types of multimedia information in detail. 20 Q7. a) Describe TIFF and JPEG formats. Also list their applications. 10 b) Write a brief note on following: i. Enterprise networks ii. Video conferencing 10 Q8. a) Explain the significance of World Wide Web. Also explain internet multimedia applications in detail. 10

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.

b) With the help of diagram, explain broadband ATM cell formats.

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