

**322711(22)**

**B. E. (Seventh Semester) Examination,**

**April-May 2020**

**(Old Scheme)**

**(CSE Branch)**

**INTERNET & MULTIMEDIA TECHNOLOGY**

***Time Allowed : Three hours***

***Maximum Marks : 80***

***Minimum Pass Marks : 28***

***Note : Attempt all questions. Sub question part 'a' of 2 marks in each question is compulsory. Attempt any two sub questions of 7 marks in each question. Assume suitable data wherever necessary.***

**Unit-I**

1. (a) What is loop back address? 2
- (b) Explain IP-data gram format giving brief description

[ 2 ]

about the following fields. Differentiated service/  
service type, flags, fragmentation offset, TTL, header  
check sum. 7

(c) What do you mean by classful addressing? Explain. 7

(d) Explain the function of ARP and RARP with packet  
format. 7

### Unit-II

2. (a) Write the full form of DIAS & ATM. 2

(b) Explain 557 Protocol Stack with diagram. 7

(c) Draw and explain ISDN Protocol Stack. Also write  
about ISDN focussing on ISDN principles. 7

(d) Describe ATM reference model with diagram. 7

### Unit-III

3. (a) Define Piconet and scatternet. 2

(b) Explain 802.11 CSMA/CA Protocol and frame  
format used in wireless LAN. 7

(c) What is Ultra Wideband Technology? Explain  
characteristics and advantages of Ultra Wideband  
Technology. 7

[ 3 ]

(d) Explain mobile IP. How does it support mobility on  
internet? 7

### Unit-IV

4. (a) What is temporal and Non-temporal media? 2

(b) What is MPEG 4? Explain the working of MPEG 4  
Encoder and Decoder. 7

(c) Explain major steps JPEG Compression technique  
with diagram. 7

(d) Explain the basic concept of speech. 7

### Unit-V

5. (a) Write are the applications of MPEG-7? 2

(b) What is IEEE 1394? And also explain the data  
type and Registers of IEEE 1394? 7

(c) Explain content based information retrieval. 7

(d) What are the characteristics of MMX instruction  
set? 7