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Roll No. : .....

**576361(76)**

**676561(76)**

**M. B. A. (Third Semester) Examination,**

**Nov.-Dec. 2021**

**(New Scheme)**

**(Management Branch)**

**(Specialization : System Management)**

**COMPUTER NETWORKING (New)**

**Time Allowed : Three hours**

**Maximum Marks : 80**

**Minimum Pass Marks : 32**

**Note : Attempt all questions. Part (a) from each unit is compulsory. Solve any two from part (b), (c) & (d) from each unit.**

**Unit-I**

1. (a) Define the term FDM and WDM in brief.

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- (b) Draw the OSI reference model and explain the functions of each layer in brief. 7
- (c) What do you mean by Computer Networks? Explain any three criteria necessary for an effective and efficient network. 7
- (d) Describe the various types of transmission media. 7

**Unit-II**

- 2. (a) What is EDI? 2
- (b) What do you mean by FTP? Explain the functions of each layer in brief. 7
- (c) What is E-mail? Explain E-mail architecture and its services. 7
- (d) Explain the architecture of ISDN and its features. 7

**Unit-III**

- 3. (a) What do you understand by SLIP? Explain in brief. 2
- (b) What is UDP? Give format of UDP and explain use of all parameters. 7

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- (c) What is Congestion Control? Explain any one algorithm of it. 7
- (d) Explain the working of stop and wait ARQ error control. 7

**Unit-IV**

- 4. (a) Explain VOIP in brief. 2
- (b) What is IPv6? Explain its packet format. 7
- (c) What do you understand by Network Device? Explain according to their properties. 7
- (d) What is IPv4? Give the advantages IPv6 over IPv4. 7

**Unit-V**

- 5. (a) What is Network Security? Why it is needed? 2
- (b) What do you understand by Cryptography? Explain the various categories of cryptography. 7
- (c) What do you mean by Telnet? Explain telnet login and remote login. 7

(d) What do you understand by enterprise network?  
Explain in details.

7

Unit-IV

4. (a) Explain VTP in detail.

(b) What is IEEE? Explain its packet format.

(c) What do you understand by Network Ethernet?

(d) What is IEEE? Give the advantages IEEE over IEEE.

Unit-V

5. (a) What is Network Security? Why it is needed?

(b) What do you understand by Cryptography? Explain

the various techniques of cryptography.

(c) What do you mean by TLS? Explain its main