

**NC-127**

December-2015

**B.Com., Sem.-V****Core Elective-301 : Computer Application  
(Fundamentals of Networking)****Time : 3 Hours]****[Max. Marks : 35**

સૂચના : બધા પ્રશ્નોના ગુણ સમાન છે.

1. (a) નેટવર્કિંગમાં કમ્પ્યુનીકેશન ચેનલોના (communication channels) જુદા-જુદા પ્રકારો સમજાવો. 3  
**અથવા**  
 નેટવર્કિંગમાં ટ્રાન્સમિશન (transmission) ના જુદા-જુદા પ્રકારો સમજાવો.
- (b) નેટવર્કિંગમાં સર્કીટ (circuits) ના જુદા-જુદા પ્રકારો સમજાવો. 2  
**અથવા**  
 સ્પીડ (speed) અને રેટ (rate)ની વાખ્યા આપો.
- (c) ઈન્ટરેક્ટીવ કમ્પ્યુનીકેશન સીસ્ટમ એટલે શું ? ઉદાહરણ આપી સમજાવો. 2  
**અથવા**  
 નોન-ઈન્ટરેક્ટીવ કમ્પ્યુનીકેશન એટલે શું ? ઉદાહરણ આપી સમજાવો.
2. (a) સ્ટાર ટોપોલોજી સમજાવી, તેના લાભો અને ગેરલાભો જણાવો. 3  
**અથવા**  
 બસ ટોપોલોજી સમજાવી, તેના લાભો અને ગેરલાભો જણાવો.
- (b) કમ્પ્યુટર નેટવર્કના લાભો જણાવો. 2  
**અથવા**  
 “VWAN” પર નોંધ લખો.
- (c) “LAN” ને વિગતે સમજાવો અને તેના લાભો જણાવો. 2  
**અથવા**  
 “MAN” ને વિગતે સમજાવો અને તેના લાભો જણાવો.
3. (a) વાયરલેસ નેટવર્ક એટલે શું ? તેના કાર્યો જણાવો. 3  
**અથવા**  
 નેટવર્ક સેવાઓને વિગતે સમજાવો.



Seat No. : \_\_\_\_\_

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**December-2015**

**B.Com., Sem.-V**

### **Core Elective-301 : Computer Application (Fundamentals of Networking)**

**Time : 3 Hours]**

**[Max. Marks : 35]**

**Instruction :** All questions carry equal marks.

1. (a) Explain different types of communication channels in Networking. 3

**OR**

Explain different types of transmission in Networking.

- (b) Explain different types of circuits in Networking. 2

**OR**

Define Speed and Rate.

- (c) What is Interactive Communication System ? Explain giving example. 2

**OR**

What is Non-Interactive Communication System ? Explain giving example.

2. (a) Explain Star topology by giving its advantages and disadvantages. 3

**OR**

Explain BUS topology by giving its advantages and disadvantages.

- (b) Write note on advantages of Computer Network. 2

**OR**

Write note on VWAN.

- (c) Explain LAN in detail. Also write advantages of it. 2

**OR**

Explain MAN in detail. Also write advantages of it.

3. (a) What do you mean by Wireless Networks ? Explain its functions. 3

**OR**

Explain Network Services in detail.

- (b) Define and differentiate between Router and Bridge. 2  
**OR**  
Define HUB and Switch. Explain difference between working of both.
- (c) What do you mean by Protocol ? Explain. 2  
**OR**  
Write note on NIC.
4. (a) What do you mean by E-mail ? Explain all E-mail protocols. 3  
**OR**  
What is SNMP ? Explain its components and functions.
- (b) Write note on DNS. 2  
**OR**  
Write note on HTTP.
- (c) Write note on HTML. 2  
**OR**  
Explain Coaxial Cable and Twisted pair cable.
5. Choose the correct option : 7
- (1) Which of the transport layer protocol is connectionless ?
    - (a) UDP
    - (b) TCP
    - (c) FTP
    - (d) NVT
  - (2) The standard suit of protocols used by the Internet, Intranet, Extranet and some other Networks is \_\_\_\_\_.
    - (a) TCP / IP
    - (b) Protocol
    - (c) Open system
    - (d) Internet work processor
  - (3) \_\_\_\_\_ device performs modulation and demodulation.
    - (a) Modem
    - (b) Fiber optic
    - (c) Satellite
    - (d) Coaxial cable
  - (4) The data unit in the TCP/IP layer called a \_\_\_\_\_.
    - (a) Message
    - (b) Segment
    - (c) Datagram
    - (d) Frame
  - (5) Device on one network can communicate with devices on another network via a \_\_\_\_\_.
    - (a) File Server
    - (b) Utility Server
    - (c) Printer Server
    - (d) Gateway
  - (6) Which data communication method is used to transmit the data over a serial communication link ?
    - (a) Simplex
    - (b) Half-duplex
    - (c) Full-duplex
    - (d) All of above
  - (7) Which of the following devices is a PC component that connects the computer to the network ?
    - (a) Bridge
    - (b) NIC
    - (c) DNS server
    - (d) Gateway
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