

M.Lib. I. Science Sem.-2 Examination

Lib. - 509

Network & Internet

June 2022

Time : 1-15 Hours]

[Max. Marks : 25

(Note: નીચેના PART- 1 ના પાંચ પ્રશ્નોમાંથી કોઈપણ બે પ્રશ્નોના જવાબ લખો)

- પ્ર. 1 ડેટા કોમ્યુનિકેશન એટલે શું? ટેલિકોમ્યુનિકેશનના વાયર તેમજ વાયરલેસ માધ્યમો, તેમજ અંગેની વિશેષતાઓ અને મર્યાદાઓ વિષે વિસ્તૃતમાં સમજાવો. 10
- પ્ર. 2 નેટવર્કોમાં ઉપયોગમાં લેવાતા વિવિધ ઉપકરણો (હાર્ડવેર) તેના મહત્વ સાથે સમજાવો. 10
- પ્ર. 3 ઇન્ટરનેટ એટલે શું? તેના માટે જરૂરી તાપની મર્યાદા, ફાયટા અને નેટવર્કવહી જણાવો. 10
- પ્ર. 4 (A) નેટવર્ક ઓપરેટીંગ સિસ્ટમ શું છે? તેની વ્યવસ્થાની રૂબરૂ સમજાવો. 10
(B) સ્વિચિંગ ટેકનિક્સને સી.આર. વર્ણવો.
- પ્ર. 5 (A) IP Address શું છે? તે કોમ્પ્યુટર નેટવર્કના કેવી રીતે ઉપયોગમાં આવે છે, તેની વિસ્તૃત સમજ આપો. 10
(B) ઇન્ટરનેટ સિક્યુરીટી અને પ્રાઇવેસી
- પ્ર. 3 અંગ્રેજી વર્ઝન પ્રમાણે. Compulsory Part-II MCQ 10

English Version

- Q. 1 What is Data Communication? Explain in detail features and limitations of wired and wireless medium of telecommunication. 10
- Q. 2 Explain in detail about various services (Hardware) used in Networking. 10
- Q. 3 What is Internet? Explain in detail of internet, tools, functions, advantages and disadvantages. 10
- Q. 4 (A) What is Network Operating System? Explain its feature in brief. 10
(B) Describe in details about Switching Techniques.
- Q. 5 (A) What is IP address? Explain its used in computer network in detail. 10
(B) Internet Security and Privacy.
- Q. 3 Compulsory Part-II 10

According to the English version Multiple Choice Questions

Note: Choose and write the correct answer to any five multiple choice questions from the ten questions below.

1. What is Networking?
- (a) Form of Arrangement (b) A temporary Arrangement
- (c) An arrangement that links a group of persons or organisations or equipments (d) An arrangement that links a group of persons

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2. Indicate the beginner of INTERNET from the following choice
(a) NETWORK (b) ARPANET
(c) VPN (d) TELNET
3. Asynchronous communication is when the sender and recipient:
(a) Are online at the same time (b) Do not have to be online at the same time
(c) Do not use the same operating system (d) Use different software but are able to communicate through the Internet.
4. What type of cable uses light waves to carry information at high speed?
(a) Telephone lines (b) Coaxial cables
(c) Fiber-optic Cables (d) Twisted pair Cables
5. In OSI network architecture, the routing is performed by:
(a) Network layer (b) Data link layer
(c) Transport layer (d) Session layer
6. Devices on one network can communicate with devices on another network via a...
(a) File server (b) Gateway
(c) Printer Server (d) Utility Server
7. Which type of communication media is being used now a days in telephones, television signals and in high speed faxes?
(a) Microwaves (b) Space communication
(c) Satellite (d) Optic fibre
8. What is the meaning of transmission control protocol (TCP) in transmission system?
(a) Obtaining each information (b) Obtaining each information and data
(c) Dividing each information and data into small pieces (d) Communicating each information and data
9. How the computers are linked in tree network topology?
(a) All computers are linked directly (b) All computers are linked indirectly
(c) All computers are linked hierarchically (d) All computers are linked together.
10. Microwaves, coaxial cable, fiber optic cables and satellites are the examples of which kind of band channel?
(a) Voice band (b) Broad band
(c) Narrow band (d) High band