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Time : 2 Hours**Computer Organisation and Operating System****(CWSN)****Subject Code**

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Total No. of Questions : 3**(Printed Pages : 3)****Maximum Marks : 50**

Instructions: -

- (i) All questions are compulsory.
- (ii) Figures to the right indicate full marks.
- (iii) Write the number of each question and sub-question clearly.
- (iv) Draw neat diagram wherever necessary.
- (v) Answer to every question shall start on a fresh page.

Q1.(A) Fill in the blanks by choosing the appropriate words from the choices. 1×10=10

1. _____ is a large computer network that spans a city or a larger area.
(WAN, VAN, LAN, MAN)
2. _____ transmission mode transmit and receive information between two communicating devices but not at the same time.
(Simplex, Duplex, half duplex, Multiplex)
3. Each node has point to point link to every other node in _____.
(Bus topology, Star topology, Ring topology, Mesh topology)
4. _____ type of signal is in the form of 0 and 1.
(Analog, Digital, Optical, Electrical)
5. _____ is a set of rules that allows two machines to communicate.
(Topology, Protocol, Server, Network)
6. All nodes are connected to the single cable in _____.
(Bus topology, Star topology, Ring topology, Mesh topology)
7. _____ network uses radio waves to communicate.
(Wired, Wireless, Private, Public)
8. _____ server acts as an electronic post office for the mail.
(Print server, File server, Mail server, Web server)

9. The central conducting wire of twisted pair cable is made of _____
(Copper, Glass, Aluminium, Steel)
10. _____ Linux command is used to rename the existing file.
(grep, mv, cd, sort)

(B) Pick the odd one out from the following. 1×5=5

1. Bus topology, Ring topology, Tree topology
2. Star, MAN, LAN
3. Server, Internet, Intranet
4. Router, Bridge, cable
5. Pwd, ls, kernel

(C) Match the following 1×6=6

- | | |
|--------------------------|----------------------------|
| 1. WAN | a. Linux |
| 2. Client Server Network | b. Glass core |
| 3. EDI | c. Dedicated server |
| 4. Bridge | d. Electronic transmission |
| 5. Fiber optic cable | e. Wide Area Network |
| 6. Shell | f. Connects two LAN's |

(D) Answer the following in a word or phrase. 1×5=5

1. Which type of network connects computers within office building or campus.
2. Which logical topology method is used to detect the data packet collision.
3. Which type of servers are used as both servers as well as a workstation.
4. Which command in linux is used to delete a file.
5. Which command in linux is used to report the disk space used by specified files and directories.

Q2. Answer the following questions in one sentence each. 1×6=6

1. What is computer network ?
2. What is logical topology?
3. Give one descriptive feature of Ring topology.
4. Give one point of difference between wired and wireless network.
5. What is a Node ?
6. Give one descriptive feature of Coaxial cable.

Q3. Answer the following question in brief (Any 09) 2×9=18

1. What is data communication ? State the elements of data communication.
2. Give any two features of Wide Area Network.

3. Briefly explain full duplex mode of transmission.
4. Draw a neat labelled diagram of star topology and explain.
5. Give two descriptive features of tree topology.
6. Explain in two to three lines peer to peer network.
7. Give two benefits of EDI.
8. How does the intranet different from internet ?
9. Briefly explain the use of NIC in a network.
10. Explain in two to three lines the use of routers in a network.
11. What are gateways? Explain in two to three lines.