



2018 III 15

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Seat No. :

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Time : 2 Hours    **COMPUTER ORGANIZATION AND OPERATING SYSTEM (CWSN)**

**Subject Code**

V	3	1	8
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**Total No. of Questions : 3**

**(Printed Pages : 3)**

**Maximum Marks : 50**

- INSTRUCTIONS:**
- i) **All questions are compulsory.**
  - ii) **Figures to right indicate full marks.**
  - iii) **Write the no. of the question and sub-question clearly.**
  - iv) **Draw diagrams wherever necessary.**
  - v) **Answer to every question shall start on a fresh page.**

1. A) Fill in the blanks by choosing the appropriate words from the choices : **(1×10=10)**
- 1) \_\_\_\_\_ signal has two values zero and one.  
(Analog, Digital, Hybrid, Microwave)
  - 2) \_\_\_\_\_ network is connected with different types of cables.  
(Wired, Wireless, Mesh, Private)
  - 3) The transmission mode where signal can be transmitted in only one direction at a time is called \_\_\_\_\_  
(Simplex, Half duplex, Full duplex, Duplex)
  - 4) The method in which data traffic is regulated by passing a special electronic signal is called a \_\_\_\_\_  
(Transmission, Ethernet, Token ring, Mode)
  - 5) The term used to describe the way in which computers are connected in a network is called \_\_\_\_\_  
(Peer to Peer, Topology, Logical, Node)
  - 6) The type of network which is used to connect computer across the globe is called a \_\_\_\_\_  
(Value Added Network, WAN, MAN, LAN)
  - 7) \_\_\_\_\_ topology connects all nodes in a single communication line.  
(Star, Bus, Ring, Tree)



- 8) The term used for replacing paper documents with electronic documents is called \_\_\_\_\_  
(Internet, EDI, Intranet, Client)
- 9) \_\_\_\_\_ is a device that regenerate and amplifies signals to create long distance network.  
(Modem, Repeater, Hub, Switch)
- 10) The linux shell command to rename a file is called \_\_\_\_\_  
(mv, dir, cp, ls)

B) Pick the odd one out from the following computer terms : (1×5=5)

- 1) LAN, MAN, MESH
- 2) Client, Star, Ring
- 3) Computer, Domain, Workgroup
- 4) Baseband, Switch, Broadband
- 5) C shell, Multiuser, Bourne shell.

C) Match the following : (1×6=6)

- |                      |                                    |
|----------------------|------------------------------------|
| 1) Linear Bus        | a) Client server architecture      |
| 2) Dedicated server  | b) Motherboard                     |
| 3) Printer server    | c) Physical topology               |
| 4) Fibre optic cable | d) Heart of linux operating system |
| 5) NIC               | e) Spooler                         |
| 6) Kernel            | f) Fiber line driver               |

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

- 1) Name the network that interconnects many computers and terminals located within 10 kilometers of radius.
- 2) Name the server that serves as an electronic post office for email.
- 3) Which connector is used to connect coaxial cable ?
- 4) Name the free operating system created by linux toravalds.
- 5) Name a linux shell command to remove a directory.

2. Answer the following questions in **one** sentence **each** : (1×6=6)

- 1) Write one point of difference between LAN and WAN.
- 2) What is simplex mode of data transmission ?



- 3) What is logical topology ?
- 4) State one point of difference between Private Network and Public Network.
- 5) What is a workstation ?
- 6) Write one feature of Fibre Optic Cable.

3. Answer the following questions in **two** sentences **each**. (**Any nine**) **(2×9=18)**

- 1) Write two characteristics of computer network.
  - 2) Briefly describe star topology.
  - 3) State two benefits of wireless network.
  - 4) What is metropolitan area network ?
  - 5) What is Data Transmission ?
  - 6) State two benefits of EDI.
  - 7) Briefly explain the concept of Intranet.
  - 8) State two points of difference between client server and peer to peer network.
  - 9) What is a Cable ? Mention one difference between Baseband and Broadband cable.
  - 10) What is the use of a device called router on the network ?
  - 11) Write two advantages of twisted pair cable.
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