

Data Communication and Networking - Set 3

MCQs.

- 1) A _____ operates in both the physical & the data link layer;
(a) Router (b) Bridge (c) Repeater
(d) Passive hub.
- 2) VLANs creates _____ domains:
(a) multicast (b) Broadcast
(c) Unicast (d) none of the above.
- 3) A _____ is a device that operates only in the physical layer:
(a) bridge (b) router (c) passive hub
(d) repeater.
- 4) A _____ switch is a faster and more sophisticated router;
(a) two-layer (b) four layer.
(c) three layer (d) none of the above
- 5) _____ is just a connector.
(a) A passive hub (b) An active hub
(c) either (a) or (b) (d) neither (a) or (b)
- 6) A _____ regenerate a signal, connects segments of a LAN, and has no filtering capabilities;
(a) router (b) repeater (c) bridge
(d) none of the above.
- 7) A _____ LAN allows several LANs to be connected;
(a) wired (b) wireless (c) Backbone
(d) none of the above.
- 8) A bridge can use the _____ algorithm to create a loopless topology;
(a) multiway tree (b) binary tree
(c) spanning tree (d) none of the above

9) Multipoint repeater which is used to create connections b/w two stations in a physical star topology;
 (a) A passive hub
 (c) either (a) or (b)
 (b) An active hub
 (d) neither (a) or (b)

10) In a _____ backbone, the backbone is just one switch;
 (a) star
 (b) bus
 (c) ring
 (d) none

11) A spanning tree is a graph in which there is no _____
 (a) arc
 (b) loop
 (c) node
 (d) branch

12) A _____ bridge can forward and filter frames and automatically build its forwarding table;
 (a) dual
 (b) transparent
 (c) simple
 (d) none of the above

13) A VLANs (virtual local area Network) is configured by:
 (a) hardware
 (b) physical wiring
 (c) software
 (d) none of the above

14) A _____ is normally a computer/device that operates in all 7 layers of OSI model;
 (a) Gateway
 (b) router
 (c) bridge
 (d) repeater

15) A _____ has a table used in filtering decisions;
 (a) bridge
 (b) passive hub
 (c) repeater
 (d) none of above

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