

# Data Communication Internal -III

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\* Required

Name \*

EKLAVYA BAJPAI

USN \*

1MV18IS014

Email \*

1mv18is014@sirmvit.edu

1. Ethernet frame consists of \*

2 points

- ☒ a) MAC address
- ☐ b) IP address
- ☐ c) Default mask
- ☐ d) Network address



2. MAC address is of \*

2 points

- ☐ a) 24 bits
- ☐ b) 36 bits
- ☐ c) 42 bits
- ☒ d) 48 bits

3. . A point-to-point protocol over Ethernet is a network protocol for \*

2 points

- ☒ a) encapsulating PPP frames inside ethernet frames
- ☐ b) encapsulating ethernet frames inside PPP frames
- ☐ c) for security of ethernet frames
- ☐ d) for security of PPP frames

4. Gigabit Ethernet has a data rate of \_\_\_\_\_ Mbps. \*

2 points

- ☐ A) 10,000
- ☒ B) 1000
- ☐ C) 100
- ☐ D) 10



5. In Ethernet addressing, if the least significant bit of the first byte is 1, the address is \* 2 points

- ☒ A) multicast
- ☐ B) broadcast
- ☐ C) unicast
- ☐ D) none of the above

6. The original IEEE 802.11, has a data rate of \_\_\_\_\_ Mbps. \* 2 points

- ☐ A) 11
- ☐ B) 22
- ☐ C) 6
- ☒ D) 1

7. In Ethernet addressing, if the least significant bit of the first byte is 0, the address is \* 2 points

- ☐ A) broadcast
- ☐ B) multicast
- ☒ C) unicast
- ☐ D) none of the above



8. In Bluetooth, the \_\_\_\_\_ layer is roughly equivalent to the physical layer of the Internet model. \*

2 points

- ☐ A) baseband
- ☒ B) radio
- ☐ C) L2CAP
- ☐ D) none of the above

9. The maximum size of payload field in ethernet frame is \_\_\_\_\_ \*

2 points

- ☐ a) 1000 bytes
- ☐ b) 1200 bytes
- ☐ c) 1300 bytes
- ☒ d) 1500 bytes

10. A Bluetooth network is called a \_\_\_\_\_. \*

2 points

- ☐ A) scatternet
- ☐ B) bluenet
- ☒ C) piconet
- ☐ D) none of the above



11. A Bluetooth network consists of \_\_\_\_ primary device(s) and up to \_\_\_\_ secondary devices. \* 2 points

- ☒ A) one; seven
- ☐ B) one; five
- ☐ C) five; three
- ☐ D) two; six

12. . Bluetooth is a \_\_\_\_\_ technology that connects devices (called gadgets) in a small area. \* 2 points

- ☐ A) VLAN
- ☐ B) wired LAN
- ☒ C) wireless LAN
- ☐ D) none of the above

13. In IEEE 802.11, a station with \_\_\_\_\_ mobility is either stationary (not moving) or moving only inside a BSS. \* 2 points

- ☐ A) ESS-transition
- ☒ B) no-transition
- ☐ C) BSS-transition
- ☐ D) none of the above



14. In Bluetooth, the current data rate is \_\_\_\_Mbps. \*

2 points

- ☐ A) 11
- ☐ B) 5
- ☐ C) 2
- ☒ D) none of the above

15. The IEEE 802.11 wireless LANs use \_\_\_\_\_ types of frames. \*

2 points

- ☐ A) five
- ☐ B) six
- ☐ C) four
- ☒ D) none of the above

16. In IEEE 802.11, a station with \_\_\_\_\_ mobility can move from one ESS to another. \*

2 points

- ☐ A) BSS-transition
- ☒ B) ESS-transition
- ☐ C) no-transition
- ☐ D) none of the above



17. What is the exception in the similarities between the optical Ethernet and the Ethernet LAN? \*

2 points

- ☒ a) Physical layer
- ☐ b) Data-link layer
- ☐ c) Refractive index
- ☐ d) Attenuation mechanism

18. \_\_\_\_\_ is a second-generation cellular phone system based on CDMA and DSSS. \*

2 points

- ☒ A) IS-95
- ☐ B) D-AMPS
- ☐ C) GSM
- ☐ D) none of the above

19. In the third generation of cellular phones, \_\_\_\_\_ uses CDMA2000. \*

2 points

- ☒ A) IMT-MC
- ☐ B) IMT-TC
- ☐ C) IMT-SC
- ☐ D) IMT-DS



20. . In \_\_\_\_\_, auto negotiation allows two devices to negotiate the mode or data rate of operation. \*

2 points

- ☐ A) Ten-Gigabit Ethernet
- ☐ B) Gigabit Ethernet
- ☒ C) Fast Ethernet
- ☐ D) Standard

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