

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY
QUESTION BANK
Unit Test-II

Program: - Computer Engineering Group

Program Code:- CM/IF

Course Title: - Data Communication & Computer Network

Semester: - Fourth

Course Abbr & Code:-DCN (314318)

Scheme: K

CHAPTER-3 (Error Detection, Correction and Wireless Communication)
(CO3)

2 MARKS

1. List IEEE 802X standards for network.
2. Classify mobile generations.

4 MARKS

3. Describe Bluetooth architecture with neat diagram.
4. Draw and explain architecture of 802.11 wireless LAN.
5. Describe various mobile generations.

CHAPTER-4 (Network Communication Models) (CO4)

2 MARKS

6. List classes of IP address with their ranges.
7. State functions of Network layer.
8. Draw OSI reference model.
9. List Application layer Protocols.

4 MARKS

10. Compare IPv4 and IPv6.
11. Describe the functions of Physical and data link layer in OSI reference model.
12. Draw and explain layered architecture of OSI reference model.
13. Draw and explain TCP/IP model.
14. Explain ARP, subnetting , supernetting with example.
15. Explain process of DHCP configuration.
16. Difference between Classful and Classless Addressing.
17. Difference between TCP and UDP.

18. Explain data encapsulation in OSI reference model.

CHAPTER- 5(Network Topologies and Network Devices) (CO5)

2 MARKS

19. Define the term network topology.

20. List different types of network connecting devices.

21. Write difference between repeater and router.(any two points)

22. State the functions of modem and repeater.

4 MARKS

23. Explain with neat sketch working of router and switch.

24. Describe wireless infrastructure components in detail.

25. Differentiate between router and Switch with respect to layer, port, device type and speed.

26. Explain working of the following topologies.

I) Star

ii) Mesh

27. Design network layout for organization with five dept. (ten users each)

28. Consider a network with 8 computers which network architecture should be used peer to peer or client server? Justify your answer.

29. Explain with diagram client server and peer to peer network architecture.