# BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

# QUESTION BANK

## Unit Test-II (Shift:-I & II)

Program : - Computer Engineering Group        Program Code:- CM

Course Title: - Data Communication & Computer Network      Semester: - Fourth

Course Abbr &Code:-DCC (22414)            Scheme: I

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

#### 2 MARKS

1. List IEEE standards.

2. State features of fifth generation in mobile.

#### 4 MARKS

1. Describe Bluetooth architecture with neat diagram.

2. Differentiate between 1G, 2G, 3G and 4G w.r.t Technology, Switching type, Data speed and multiplexing

3. With the help of diagram describe 802.11 architecture.

## CHAPTER-4 (Network Topologies and Network Devices) (CO4)

#### 2 MARKS

1. Define the term topology. Give names of any 2 topology.

2. State whether the bus is active or passive network. Justify your answer.

3. Give two advantages of mesh topology.

4. List any two components which work at Physical layer of OSI model.

5. State functions of Modem.

**4 MARKS**

1. State the drawbacks of Ring topology.

2. State whether star is active or passive network. Justify. Also state the situation where it is more suitable.

3. Describe Tree topology in detail.

4. Identify Bridges and state in which layer of OSI model they operate. List uses of it.

5. Compare Hub, Switch and Bridge w.r.t Type of device, layer of operation, intelligence and duties.

6. With neat diagram describe Gateways.

## CHAPTER-5 (Reference Models) (CO5)

**2 MARKS**

1. Define Data Encapsulation.

2. List functions of physical layer.

3. State two names of protocol used at Data Link layer and Transport layer in OSI reference model.

4. What is subnet masking?

**4 MARKS**

1. Compare IPv4 and IPv6.

2. Describe the functions of Network layer in OSI reference model.

3. Describe Presentation layer of OSI reference model.

4. Draw and explain layered structure of TCP/IP model.

5. State different IP address classes and describe any one in brief.

6. Differentiate between OSI and TCP/IP reference model.