

**Program: BE Information Technology Engineering**

**Curriculum Scheme: Revised 2012**

**Examination: Second Year Semester IV**

**Course Code:** TEITC402

**Course Name: Computer Networks**

Time: 1 hour

Max. Marks: 50

=====  
Note to the students:- All the Questions are compulsory and carry equal marks .

|           |   |
|-----------|---|
| Q1.       | Which multiple Access technique is used by IEEE 802.11 standard for wireless LAN?   |
| Option A: | CDMA  |
| Option B: | CDMA/CD   |
| Option C: | CDMS/CA   |
| Option D: | FDMA  |
|           |   |
| Q2.       | What is the size of MAC address?  |
| Option A: | 16 – bits   |
| Option B: | 32 – bits   |
| Option C: | 48 – bits   |
| Option D: | 64 – bits   |
|           |   |
| Q3.       | In the _____ method, after the station find the line idle, it sends its frame immediately. if the line is not idle, it continuously senses the line until it finds it idle. |
| Option A: | Nonpersistent   |
| Option B: | 1-persistent  |
| Option C: | p-persistent  |
| Option D: | n-persistent  |
|           |   |
| Q4.       | Which of the following was the IBM Token bus?   |
| Option A: | IEEE 802.10   |
| Option B: | IEEE 802.11   |
| Option C: | IEEE 802.1  |
| Option D: | IEEE 802.4  |
|           |   |
| Q5.       | A device that provides a central connection point for cables is –   |
| Option A: | Switch  |
| Option B: | Gateway   |
| Option C: | Hub   |
| Option D: | Proxy Server  |
|           |   |
| Q6.       | What is the function of Network Interface Cards?  |

|           |  |
|-----------|--|
| Option A: | connects the clients, servers and peripherals to the network through a port                                |
| Option B: | allows you to segment a large network into smaller, efficient networks                                     |
| Option C: | connects networks with different protocols like TCP/IP   |
| Option D: | boost the signal between two cable segments or wireless access points                                      |
|           |  |
| Q7.       | In _____ methods, no station is superior to another station and none is assigned the control over another. |
| Option A: | Random access  |
| Option B: | controlled access  |
| Option C: | Channelization   |
| Option D: | random and controlled access   |
|           |  |
| Q8.       | Which is the smallest unit amongst the following with reference to the ATM-                                |
| Option A: | transmission path  |
| Option B: | virtual path   |
| Option C: | virtual circuit  |
| Option D: | transmission circuit   |
|           |  |
| Q9.       | _____ is a supplementary protocol that allows non-ASCII data to be sent through e-mail.                    |
| Option A: | SMTP   |
| Option B: | MPEG   |
| Option C: | POP  |
| Option D: | MIME   |
|           |  |
| Q10.      | Transmission delay (time) is the ratio of _____.   |
| Option A: | transmission rate to packet length   |
| Option B: | transmission rate to distance  |
| Option C: | packet length to transmission rate   |
| Option D: | processing time to transmission rate   |
|           |  |
| Q11.      | The IP header size is _____ bytes long.  |
| Option A: | 20 to 60   |
| Option B: | 20   |
| Option C: | 60   |
| Option D: | 80   |
|           |  |
| Q12.      | In classful addressing, the IPv4 address space is divided into _____ classes.                              |
| Option A: | 2  |
| Option B: | 3  |
| Option C: | 4  |
| Option D: | 5  |
|           |  |
| Q13.      | What is the default prefix length for class C in CIDR notation?  |
| Option A: | 24   |
| Option B: | 8  |

|           |   |
|-----------|---|
| Option C: | 16  |
| Option D: | 12  |
|           |   |
| Q14.      | DHCP uses the services of _____.  |
| Option A: | UDP   |
| Option B: | TCP   |
| Option C: | IP  |
| Option D: | HTTP  |
|           |   |
| Q15.      | ICMP is a (an) _____ layer protocol.  |
| Option A: | application-layer protocol that helps TCP/IP at the network layer   |
| Option B: | transport-layer protocol that helps TCP/IP at the network layer   |
| Option C: | network-layer protocol  |
| Option D: | data-link layer protocol that helps TCP/IP at the network layer   |
|           |   |
| Q16.      | Routing between autonomous systems is referred to as _____ routing.   |
| Option A: | interdomain routing   |
| Option B: | intradomain routing   |
| Option C: | out-of-domain   |
| Option D: | Inter and intra domain routing  |
|           |   |
| Q17.      | When the load in the network reaches the network capacity, the packet delay _____ and the network throughput reaches _____. |
| Option A: | increases sharply; its minimum  |
| Option B: | increases sharply; its maximum  |
| Option C: | decreases sharply; its minimum  |
| Option D: | decreases sharply; its maximum  |
|           |   |
| Q18.      | Which error detection method uses one's complement arithmetic?  |
| Option A: | Simple parity check   |
| Option B: | Two-dimensional parity check  |
| Option C: | CRC   |
| Option D: | Checksum  |
|           |   |
| Q19.      | What is present in all HDLC control fields?   |
| Option A: | P/F bit   |
| Option B: | code bits   |
| Option C: | N(S)  |
| Option D: | N(R)  |
|           |   |
| Q20.      | Network layer authentication involves _____.  |
| Option A: | ESP   |
| Option B: | BH  |

|           |  |
|-----------|--|
| Option C: | CH   |
| Option D: | DH   |
|           |  |
| Q21.      | ONE OF MODES IN IPSEC  |
| Option A: | Network  |
| Option B: | Presentation   |
| Option C: | Tunnel   |
| Option D: | Application  |
|           |  |
| Q22.      | Components of PKI  |
| Option A: | CA   |
| Option B: | TA   |
| Option C: | MA   |
| Option D: | LA   |
|           |  |
| Q23.      | HMAC stands for  |
| Option A: | HIGHER MESSAGE AUTHENTICATION CODE   |
| Option B: | HIGHER MESSAGE ACCESS CODE   |
| Option C: | HASHED MESSAGE AUTHENTICATION CODE   |
| Option D: | HASHED MESSAGE ACCESS CODE   |
|           |  |
| Q24.      | Bits can be sent over guided and unguided media as analog signal by _____                            |
| Option A: | Digital modulation   |
| Option B: | Amplitude modulation   |
| Option C: | Frequency modulation   |
| Option D: | Phase modulation   |
|           |  |
| Q25.      | The portion of physical layer that interfaces with the media access control sublayer is called _____ |
| Option A: | physical signalling sublayer   |
| Option B: | physical data sublayer   |
| Option C: | physical address sublayer  |
| Option D: | physical transport sublayer  |