

Program: BE Information Technology Engineering

Curriculum Scheme: Revised 2016

Examination: Second Year Semester IV

Course Code: TEITC402

Course Name: Computer Networks

Time: 1 hour

Max. Marks: 50

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

Q1.	In the TCP/IP protocol suite, which of the following is an application layer protocol?
Option A:	The User Datagram Protocol (UDP)
Option B:	The Internet Protocol (IP)
Option C:	The File Transfer Protocol (FTP)
Option D:	The Transmission Control Protocol (TCP)
Q2.	A router is involved in _____ layers of the TCP/IP protocol suite.
Option A:	Two
Option B:	three
Option C:	Four
Option D:	five
Q3.	In TCP/IP, a logical connection between an entity at the data-link layer can be made with another entity at the _____ layer.
Option A:	Network
Option B:	Transport
Option C:	data link
Option D:	physical
Q4.	In a client-server paradigm
Option A:	both the server and the client must be running all the time.
Option B:	both the server and the client need to be running only when they are needed.
Option C:	the server must be running all the time, but the client needs to be running only when it is needed.
Option D:	the client must be running all the time, but the server needs to be running only when it is needed
Q5.	The first section of a URL identifier is the _____.
Option A:	Protocol
Option B:	Path
Option C:	Host
Option D:	port

Q6.	HTTP uses the services of _____.
Option A:	UDP
Option B:	TCP
Option C:	IP
Option D:	DNS
Q7.	In a _____ connection, one TCP connection is made for each request/response.
Option A:	persistent
Option B:	nonpersistent
Option C:	persistent or a nonpersistent
Option D:	none of the choices are correct
Q8.	In the common scenario, the electronic mail system needs _____.
Option A:	two UAs, two MTAs and one MAA
Option B:	two UAs, two MTAs and two MAAs
Option C:	two UAs, two pairs of MTAs and two pairs of MAAs
Option D:	two UAs, two pairs of MTAs and a pair of MAAs
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