University of Mumbai

Examination 2020 under cluster 4 (PCE)

Program: BE Electronics & Telecommunication
Curriculum Scheme: Rev2016
Examination: Fourth Year Semester VII
Course Code: ECCDLO7033and Course Name: Internet communication Engineering
Time: 1-hour Max. Marks: 50

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

Q1.	The ASCII encoding of binary data is called:
Option A:	base 64 encoding
Option B:	base 32 encoding
Option C:	base 8 encoding
Option D:	base 4 encoding
Q2.	Application layer offers _____ service.
Option A:	End to end
Option B:	Process to process
Option C:	Both End to end and Process to process
Option D:	Process to End
Q3.	The sender SMTP establishes a TCP connection with the destination SMTP and then waits for the server to send a ..... service ready message.
Option A:	120
Option B:	320
Option C:	421
Option D:	220
Q4.	Application developer has permission to decide the following on transport layer side
Option A:	Transport layer protocol
Option B:	Maximum buffer size

Option C:	Both Transport layer protocol and Maximum buffer size
Option D:	Application Layer
Q5.	A device is sending out data at the rate of 2000 bps. How long does it take to send a file of 1,00,000 characters?
Option A:	50
Option B:	200
Option C:	400
Option D:	800
Q6.	The maximum payload of a TCP segment is:
Option A:	65535
Option B:	65515
Option C:	65495
Option D:	65475
Q7.	Which of the following is not a field in TCP header?
Option A:	Sequence number
Option B:	Fragment offset
Option C:	Checksum
Option D:	Window size
Q8.	Which of the following functionalities must be implemented by a transport protocol over and above the network protocol?
Option A:	Recovery from packet losses
Option B:	Detection of duplicate packets
Option C:	Packet delivery in the correct order

Option D:	End to end connectivity
Q9.	Consider an instance of TCP's Additive Increase Multiplicative Decrease (AIMD) algorithm where the window size at the start of the slow start phase is 2 MSS and the threshold at the start of the first transmission is 8 MSS. Assume that a timeout occurs during the fifth transmission. Find the congestion window size at the end of the tenth transmission.
Option A:	8MSS
Option B:	14MSS
Option C:	7MSS
Option D:	12MSS
Q10.	Two machines can use the timestamp request and timestamp replay messages to determine the _____ needed for an IP datagram to travel between them.
Option A:	Half-trip time
Option B:	Round-trip time
Option C:	Travel time for the next router
Option D:	Time to reach the destination/source
Q11.	In IPv6, _____ address defines a single computer.
Option A:	broadcast
Option B:	a multicast
Option C:	an anycast
Option D:	a unicast
Q12.	The IPv4 header size _____.
Option A:	is 20 to 60 bytes long
Option B:	is 20 bytes long
Option C:	is 60 bytes long

Option D:	is 40 bytes long
Q13.	In IPv4 header, an HLEN value of decimal 10 means _____.
Option A:	there are 10 bytes of options
Option B:	there are 40 bytes of options
Option C:	there are 10 bytes in the header
Option D:	there are 40 bytes in the header
Q14.	In hexadecimal colon notation, a 128-bit address is divided into _____ sections, each _____ hexadecimal digits in length.
Option A:	8:2
Option B:	8:3
Option C:	8:4
Option D:	8:5
Q15.	A(n) _____function creates a message digest out of a message.
Option A:	encryption
Option B:	decryption
Option C:	hash
Option D:	Integrity
Q16.	The secret key between members needs to be created as a _____ key when two members contact KDC.
Option A:	Public
Option B:	Session
Option C:	Complementary
Option D:	Private

Q17.	In PGP, to exchange e-mail messages, a user needs a ring of _____ keys.
Option A:	secret
Option B:	public
Option C:	private
Option D:	encryption
Q18.	When a DNS server accepts and uses incorrect information from a host that has no authority giving that information, then it is called _____
Option A:	DNS lookup
Option B:	DNS hijacking
Option C:	DNS spoofing
Option D:	DNS authorizing
Q19.	We can divide audio & video services into ____broad categories
Option A:	Three
Option B:	Four
Option C:	Five
Option D:	Six
Q20.	Streaming stored audio/video, files are compressed and stored on a
Option A:	IP
Option B:	Server
Option C:	Domain
Option D:	Internet
Q21.	Before Audio or video signals can be sent on the internet they need to be___
Option A:	Channelized
Option B:	Managed
Option C:	Digitized

Option D:	Organized
Q22.	In JPEG, gray scale picture is divided into blocks of
Option A:	5 *5 Pixel
Option B:	6*6 Pixel
Option C:	7*7 Pixel
Option D:	8 * 8 Pixel
Q23.	Most common compression technique that is used to create CD-quality audio is based on perceptual encoding technique is called
Option A:	Predictive Encoding
Option B:	Perceptual Encoding
Option C:	MPEG.
Option D:	JPEG.
Q24.	In_____, queuing packets wait in buffer until node(router or switch) is ready to process them.
Option A:	FIFO
Option B:	Priority
Option C:	weighted fair
Option D:	FILO
Q25.	In _____ when a source makes a reservation, it need to define flow specification.
Option A:	Integrated Services
Option B:	differentiated Service
Option C:	Connectionless
Option D:	Connection Oriented

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	A
Q3.	D
Q4	C
Q5	C
Q6	C
Q7	B
Q8.	D
Q9.	C
Q10.	B
Q11.	D
Q12.	A
Q13.	D
Q14.	C
Q15.	C
Q16.	B
Q17.	B
Q18.	C
Q19.	A
Q20.	B
Q21.	C
Q22.	D
Q23.	D
Q24.	A
Q25.	A