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FINALTERM EXAMINATION
Spring 2010
CS610- Computer Network

Question No: 1 (Marks: 1) - Please choose one

A ---------- relies on the hardware manufacturer to assign a unique physical address to each network interface.

► **Static addressing scheme**

► Configurable addressing scheme

► Dynamic addressing scheme

► None of the given

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Question No: 2 (Marks: 1) - Please choose one

An interface for thin Ethernet must have an _____ connector , and must generate signals according to the_____ specification.

► **RJ-45, 10 Base T**

► RJ-45, 10 Base 5

► BNC, 10 Base 2

► BNC, 10 Base T

Question No: 3 (Marks: 1) - Please choose one

A system with redundant bridges might have a problem with_____ in the system.

- ► **Loop**
- ► Filters
- ► Spanning Trees
- ► All given choices

Question No: 4 (Marks: 1) - Please choose one

A Bridge can _____

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- ► Filter a frame
- ► Forward a frame
- ► Extend a LAN
- ► **Do all the above**

Question No: 5 (Marks: 1) - Please choose one

_____ is used for typical data applications (where the data rate may be unknown and bursty) and allows use of whatever bandwidth is available at a given time.

- ► Constant Bit Rate (CBR) service
- ► Variable Bit Rate (VBR) service

► **Available Bit Rate (ABR) service**

► None of the given

Question No: 6 (Marks: 1) - Please choose one

ATM assigns each VC a _____ identifier that is divided two parts to produce a hierarchy.

► 21-bit

► 22-bit

► 23-bit

► **24-bit**

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Question No: 7 (Marks: 1) - Please choose one

_____ of TCP/IP layering model, corresponds to basic network hardware.

► **Physical Layer**

► Network Interface Layer

► Internet Layer

► Transport Layer

Question No: 8 (Marks: 1) - Please choose one

_____ places the boundary between the second and third octets

► **Class A**

► Class B

► Class C

► Class D

Question No: 9 (Marks: 1) - Please choose one

UDP and TCP are both_____ layer protocols

► Physical

► Data link

► Network

► **Transport**

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Question No: 10 (Marks: 1) - Please choose one

Connection-oriented service, Point-to-point, Complete reliability, Full-duplex communication, Stream interface, Reliable connection startup and Graceful connection shutdown are the services provided by_____

► IP

► None of the given

► **TCP**

► UDP

Question No: 11 (Marks: 1) - Please choose one

_____ protocols of TCP/IP layering model specify how to ensure reliable transfer.

► Physical Layer

► Network Interface Layer

► Internet Layer

► **Transport Layer**

Question No: 12 (Marks: 1) - Please choose one

_____identifies which application program on receiving computer should receive the data

► Logical address
Source port
Logical address
None of the given

► Source port

► **Destination Port**

► None of the given

Question No: 13 (Marks: 1) - Please choose one

_____ identifies the application program that sent the data.

► Destination Port

► **Source port**

► Logical address

► None of the given

Question No: 14 (Marks: 1) - Please choose one

Which of the following are interior routing protocols?

► **RIP**

► OSPF

► BGP

► RIP and OSPF

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Question No: 15 (Marks: 1) - Please choose one

The Border Gateway Protocol (BGP) uses_____ for all communication

► UDP

► **TCP**

► Both UDP and TCP

► None of the given

Question No: 16 (Marks: 1) - Please choose one

_____measures distance in network hops, where each network between the source and destination counts as single hop.

- ► BGP
- ► OSPF
- ► **RIP**
- ► None of the given

Question No: 17 (Marks: 1) - Please choose one

OSPF is based on--------

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- ► Distance vector routing
- ► **Link state routing**
- ► Path vector routing
- ► Distance vector routing and Link state routing

Question No: 18 (Marks: 1) - Please choose one

_____ performs local multicast and uses IP-in-IP encapsulation to send multicast datagrams from one site on the Internet to another.

- ► **Distance Vector Multicast Routing Protocol (DVMRP)**

► Core Based Trees (CBT)

► Protocol Independent Multicast_ *Sparse Mode (PIM-SM)*

► Protocol Independent Multicast _ *Dense Mode (PIM-DM)*

Question No: 19 (Marks: 1) - Please choose one

The length of time required to send a variable length packet is variable and does not require a complicated interrupt scheme to detect completion of transmission.

► True

► **False**

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Question No: 20 (Marks: 1) - Please choose one

NEXT HEADER field in the base header defines type of header and it appears at end of fixed-size base header.

► **True**

► False

Question No: 21 (Marks: 1) - Please choose one

Although message exchange can be used to bind addresses, sending a request for each binding is hopelessly inefficient.

► **True**

► False

Question No: 22 (Marks: 1) - Please choose one

Address mask defines how many bits of address are in suffix?

► True

► **False**

Question No: 23 (Marks: 1) - Please choose one

A computer attached to a given network can only communicate with other computers attached to the same network. Is this a problem with multiple networks?

► **True**

► False

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Question No: 24 (Marks: 1) - Please choose one

In the 1970s large organizations began to acquire multiple networks. Each network in the organization formed island. Employees needed to choose a computer appropriate for each task. So they needed multiple screens, keyboards and computers.

► False

► **True**

Question No: 25 (Marks: 1) - Please choose one

The term self-identifying is used for Classful IP addresses because the class of the address can be computed from the address_____.

- ► **itself**
- ► prefix
- ► suffix
- ► mask

Question No: 26 (Marks: 1) - Please choose one

In which method of Address Resolution Protocol the protocol address independent of hardware address?

Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

- ► T, C
- ► D
- ► C
- ► **T, D**

Question No: 27 (Marks: 1) - Please choose one

In which method of Address Resolution Protocol the protocol address is determined by hardware address?

Were "T" stands for Table lookup, "C" for Closed-form Computation and "D" for Data Exchange?

► T

► D

► **C**

► T, C

Question No: 28 (Marks: 1) - Please choose one

Reconstruction of original datagram is called reassembly.

► **True**

► False

Question No: 29 (Marks: 1) - Please choose one

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A computer needs a complete stack of protocols to run either a client or a server.

► **True**

► False

Question No: 30 (Marks: 1) - Please choose one

TCP uses _____ mechanism to control the flow of data.

► door

► **window**

► acknowledgment

► retransmission

Question No: 31 (Marks: 2)

To solve the problem the routers and networks in the Internet are divided into groups. How large do you think are these groups?

Question No: 32 (Marks: 2)

Traceroute continues to increment the Time To Live until the value is large enough for the datagram to reach its final destination. What happens when the TTL is sufficiently large for the datagram to reach its destination?

Question No: 33 (Marks: 2)

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How can TCP monitor internet delays?

Question No: 34 (Marks: 2)

Which wireless standard is used in WIFI technology?

Question No: 35 (Marks: 3)

How does IP software reassemble fragments that arrive out of order?

Question No: 36 (Marks: 3)

What kind of information is in a routing table?

Question No: 37 (Marks: 3)

Define frames without type field?

Question No: 38 (Marks: 3)

What is the meaning of *Facilities For Transit Routing* as a characteristic of the Border Gateway Protocol?

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Question No: 39 (Marks: 5)

What are the charachteristics of the Border Gateway Protocol?

Question No: 40 (Marks: 5)

Describe how NAT can be usefull for residence with cable modem or DSL?