



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Tech.(ECE)-2019/B.Tech.(ECE)-2020
Course Name – Computer Network
Course Code - PCC-EC602
(Semester VI)

YEAR
UNIVERSITY
2019-2020

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the following networks extends a private network across public networks.
a) local area network
b) virtual private network
c) enterprise private network
d) storage area network
- (ii) Header of a frame generally contains _____
a) synchronization bytes
b) addresses
c) frame identifier
d) all of the mentioned
- (iii) A 4 byte IP address consists of _____
a) only network address
b) only host address
c) network address & host address
d) network address & MAC address
- (iv) Transmission control protocol _____
a) is a connection-oriented protocol
b) uses a three way handshake to establish a connection
c) receives data from application as a single stream
d) all of the mentioned
- (v) An endpoint of an inter-process communication flow across a computer network is called _____
a) socket
b) pipe
c) port
d) machine
- (vi) A _____ is a TCP name for a transport service access point.
a) port
b) pipe
c) node
d) protocol
- (vii) When using TCP, after a session is open, the applications can adjust the amount of segments they receive before sending an acknowledgement. This behavior is expressed as
a) MTU adjustment
b) Flexible send path
c) Windowing
d) FCS
- (viii) Predict the following is a transport layer protocol
a) stream control transmission protocol
b) internet control message protocol
c) neighbor discovery protocol
d) dynamic host configuration protocol
- (ix) Determine the address to be consulted to deliver a message to the correct application program running on a host
a) MAC
b) Port
c) IP
d) Logical
- (x) Subnet mask in class A has 14 1's. Choose the number of subsets does it define
a) 8
b) 32
c) 64
d) 128
- (xi) Express WAN stands for _____
a) World area network
b) Wide area network

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- c) Web area network
 d) Web access network
- (xii) Determine the following is a form of DoS attack
 a) Vulnerability attack
 b) Bandwidth flooding
 c) Connection flooding
 d) All of the mentioned
- (xiii) In TDM, indicate slots are further divided into _____
 a) Seconds
 b) Frames
 c) Packets
 d) Bits
- (xiv) Multiplexing is used in _____
 a) Packet switching
 b) Circuit switching
 c) Data switching
 d) Packet & Circuit switching
- (xv) Determine the following class of IP addresses is utilized for multicasting
 a) Class A
 b) Class B
 c) Class C
 d) Class D

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Group-B
 (Short Answer Type Questions)

3 x 5=15

2. Explain IEEE 802.3 frame format. (3)
3. Distinguish between Internet and Intranet. (3)
4. Describe about IP addressing and classification of it. (3)
5. Explain in brief about Network Topologies (3)
6. Define Masking. (3)

OR

Define the term HDLC. (3)

Group-C
 (Long Answer Type Questions)

5 x 6=30

7. Discuss about the structure and working of Switched Ethernet. (5)
8. Explain the shortest path routing algorithm with suitable example. (5)
9. Explain about Classful Addressing and Classless Addressing. (5)
10. With suitable example, develop the concept of subnetting in class B network. (5)
11. Explain the adaptive transmission mechanism (5)
12. Describe in detail about guided media transmission. (5)

OR

Describe the various layers in TCP/IP reference model. (5)
