



**BRAINWARE UNIVERSITY**  
**Term End Examination 2020 - 21**  
**Programme – Master of Science in Computer Science**  
**Course Name – Internet Technology**  
**Course Code - MCS302**

**Semester / Year - Semester III**

Time allotted : 75 Minutes

Full Marks : 60

[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 60=60

1. *(Answer any Sixty )*

(i) Which class of IP address provides a maximum of only 254 host addresses per network ID?

- |            |            |
|------------|------------|
| a) Class A | b) Class B |
| c) Class C | d) Class D |

(ii) Which of the following are layers in the TCP/IP model

- |                |             |
|----------------|-------------|
| a) Application | b) Session  |
| c) Data Link   | d) Physical |

(iii) What is the internet?

- |   |  |
|---|--|
| a) a single network                       | b) a vast collection of different networks |
| c) interconnection of local area networks | d) connection between two computer         |

(iv) Which one of the following protocols is not used in internet?

- |         |         |
|---------|---------|
| a) HTTP | b) DHCP |
| c) DNS  | d) NAT  |

(v) The data link layer takes the packets from \_\_\_\_\_ and encapsulates them into frame for transmission

- |                  |                   |
|------------------|-------------------|
| a) network layer | b) physical layer |
|------------------|-------------------|

c) transport layer

d) application layer

(vi) What does error 404 or Not Found error while accessing a URL mean?

a) The server could not find the required URL      b) Requested HTML file is not available

c) The path to the interpreter of the script is not valid      d) The requested HTML file does not have sufficient permissions

(vii) Default port for SMTP is

a) 21      b) 23

c) 25      d) 80

(viii) Which is the part of IP

a) Netid      b) Hostid

c) Subnet mask      d) All of these

(ix) Who provides us internet

a) TCP      b) ISP

c) FTP      d) HTTP

(x) URL stands for

a) Universal Resource Locator      b) Uniform Resource Locator

c) Universal Radio Locator      d) Unified Reserve location

(xi) The design issue of data link Layer in the OSI Reference Model is

a) Framing      b) Representation of bits

c) Synchronization of bits      d) Connection control

(xii) The Internet was originally a project of which agency?

a) ARPA      b) NFS

c) NSA      d) ISRO

- (xiii) The entire hostname has a maximum of \_\_\_\_\_
- a) 255 characters
  - b) 127 characters
  - c) 63 characters
  - d) 31 characters
- (xiv) DNS database contains \_\_\_\_\_
- a) name server records
  - b) hostname-to-address records
  - c) hostname aliases
  - d) all of the mentioned
- (xv) When displaying a web page, the application layer uses the \_\_\_\_\_
- a) HTTP protocol
  - b) FTP protocol
  - c) SMTP protocol
  - d) TCP protocol
- (xvi) The network layer concerns with
- a) Bits
  - b) Frames
  - c) packets
  - d) bytes
- (xvii) The packet of information at the application layer is called \_\_\_\_\_
- a) Packet
  - b) Message
  - c) Segment
  - d) Frame
- (xviii) Application layer offers \_\_\_\_\_ service.
- a) End to end
  - b) Process to process
  - c) Both End to end and Process to process
  - d) Door to door
- (xix) Electronic mail uses which Application layer protocol?
- a) SMTP
  - b) HTTP
  - c) FTP
  - d) SIP
- (xx) IP assigned for a client by DHCP server is
- a) for a limited period
  - b) for an unlimited period

c) not time dependent

d) Both for a limited period & for an unlimited period

(xxi) The DHCP server can provide the \_\_\_\_\_ of the IP addresses.

a) dynamic allocation

b) automatic allocation

c) static allocation

d) all of these

(xxii) In file transfer protocol, data transfer can be done in

a) stream mode

b) block mode

c) compressed mode

d) all of these

(xxiii) Typically the TCP port used by SMTP is

a) 25

b) 35

c) 50

d) 15

(xxiv) In TCP, sending and receiving data is done as

a) Stream of bytes

b) Sequence of characters

c) Lines of data

d) Packets

(xxv) Transmission control protocol 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 these

(xxvi) Which one of the following tasks is not done by data link layer?

a) Framing

b) error control

c) flow control

d) channel coding

(xxvii) Which layer is responsible for process to process delivery?

a) network layer

b) transport layer

c) session layer

d) data link layer

(xxviii) A piece of icon or image on a web page associated with another webpage is called

a) url

b) hyperlink

c) plugin

d) None of these

(xxix) The values GET, POST, HEAD etc are specified in \_\_\_\_\_ of HTTP message

a) Request line

b) Header line

c) Status line

d) Entity body

(xxx) From which tag descriptive list starts?

a) `<LL><ll></ll>`

b) `<DD> <dd></dd>`

c) `<DL> <dl></dl>`

d) `<DS><ds></ds>`

(xxxii) Which of the following selector selects an element that has no children?

a) `:empty`

b) `:nochild`

c) `:inheritance`

d) `:no-child`

(xxxiii) Which of the following selector selects the elements that are currently enabled?

a) `:element`

b) `:empty`

c) `:enabled`

d) `:nochild`

(xxxiiii) Find the specificity of this "li".

a) specificity = 0,0,0,1

b) specificity = 0,0,1,1

c) specificity = 0,1,1,1

d) specificity = 1,1,1,1

(xxxv) Find the specificity of this " style="" ".

a) specificity = 0,0,0,1

b) specificity = 0,0,1,0

c) specificity = 0,1,0,0

d) specificity = 1,0,0,0

(xxxv) Which of the following elements are block and inline elements, respectively, that have no particular rendering?

a) div

b) span

c) box-model

d) both div and span

(xxxvi) Which property specifies if/how an element is displayed?

a) background-color

b) border

c) color

d) display

(xxxvii) Which property sets the background image to scroll or not to scroll with its associated element's content?

a) background

b) background-position

c) background-attachment

d) background-color

(xxxviii) Which property associates a background image with an element?

a) Image

b) background-image

c) float

d) background-color

(xxxix) Which property defines whether table cell borders are connected or separate?

a) Pre

b) border-color

c) border-collapse

d) table

(xl) What does PHP stand for?

a) Personal Home Page

b) Hypertext Preprocessor

c) Pretext Hypertext Processor

d) Personal House Page

(xli) Cookie is a

a) Server side piece of information

b) Client side piece of information

- c) System generated information
- d) Outsider access

(xlii) Array index in PHP starts from

- a) 0
- b) 1
- c) 2
- d) 4

(xliii) Which function can be used to move the pointer to the previous array position?

- a) last()
- b) before()
- c) prev()
- d) previous()

(xliv) Which function returns an array consisting of associative key/value pairs?

- a) count()
- b) array\_count()
- c) array\_count\_values()
- d) count\_values()

(xlv) Which two predefined variables are used to retrieve information from forms?

- a) \$GET & \$SET
- b) \$\_GET & \$\_SET
- c) \$\_get & \$\_set
- d) GET & SET

(xlvi) The attack which involves the insertion of malicious code into a page frequented by other users is known as.

- a) basic sql injection
- b) advanced sql injection
- c) cross-site scripting
- d) scripting

(xlvii) Which variable is used to collect form data sent with both the GET and POST methods?

- a) \$\_GET
- b) \$\_BOTH
- c) \$\_REQUEST
- d) \$REQUEST

(xlviii) How many methods are available for the exception class?

- a) 5
- b) 7
- c) 6
- d) 8

(xlix) How many error levels are available in PHP?

- a) 14
- b) 15
- c) 16
- d) 17

(l) Which function initializes the constants necessary for using the `openlog()`, `clodelog()`, and `syslog()` functions?

- a) `define_variable()`
- b) `define_log_variable()`
- c) `log_variable()`
- d) `define_syslog_variable()`

(li) Which logging option's description is if an error occurs when writing to the `syslog`, send output to the system console?

- a) `LOG_CONS`
- b) `LOG_NDELAY`
- c) `LOG_ODELAY`
- d) `LOG_PERROR`

(lii) Which function is responsible for sending a custom message to the system log?

- a) `systemlog()`
- b) `syslog()`
- c) `log_system()`
- d) `sys_log()`

(liii) How many ways are available for the handling the exception?

- a) 5
- b) 6
- c) 7
- d) 8

(liv) What does SPL stand for?

- a) Standard PHP Library
- b) Source PHP Library
- c) Standard PHP List
- d) Source PHP List



(lv) Which one of the following does not describe a validating filter?

- a) Are used to allow or disallow specific characters in a string
- b) Are used to validate user input
- c) Strict format rules
- d) Returns the expected type on success or FALSE on failure

(lvi) Data Encryption Techniques are particularly used for \_\_\_\_\_

- a) Protecting data in Data Communication System
- b) Reduce Storage Space Requirement
- c) Enhances Data Integrity
- d) Decreases Data Integrity

(lvii) VPN is abbreviated as \_\_\_\_\_

- a) Visual Private Network
- b) Virtual Protocol Network
- c) Virtual Private Network
- d) Virtual Protocol Networking

(lviii) Which of the statements are not true to classify VPN systems?

- a) Protocols used for tunnelling the traffic
- b) Whether VPNs are providing site-to-site or remote access connection
- c) Securing the network from bots and malwares
- d) Levels of security provided for sending and receiving data privately

(lix) Site-to-site VPNs are also known as \_\_\_\_\_

- a) Switch-to-switch VPNs
- b) Peer-to-Peer VPNs
- c) Point-to-point VPNs
- d) Router-to-router VPNs

(lx) The DSS signature uses which hash algorithm?

- a) MD5
- b) SHA-2
- c) SHA-1
- d) Does not use hash algorithm