BRAINWARE UNIVERSITY
Term End Examination 2020 - 21
Programme – Master of Computer Applications
Course Name – Internet Technology
Course Code - MCA501B
Semester / Year - Semester V

Time allotted : 85 Minutes   Full Marks : 70

[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 70=70

1.   (Answer any Seventy)

(i) Which of the following service use UDP?

a) DHCP   b) SMTP

c) FTP   d) HTTP

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

a) Application   b) Session

c) Data Link   d) Physical

(iii) Protocol which assigns IP address to client connected in internet is

a) DHCP   b) IP

c) RPC   d) HTML

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

a) HTTP   b) DHCP

c) DNS   d) NAT

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

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

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

not valid   sufficient permissions

(vi) Default port for SMTP is
    a) 21   b) 23
    c) 25   d) 80

(vii) Which address is reserved for loopback address?
    a) 192.168.0.0   b) 127.10.0.0
    c) 127.0.0.1   d) 192.168.0.255

(viii) URL stands for
    a) Universal Resource Locator   b) Uniform Resource Locator
    c) Universal Radio Locator   d) Unified Reserve location

(ix) The Internet was originally a project of which agency?
    a) ARPA   b) NFS
    c) NSA   d) ISRO

(x) The process of transferring files from a computer on the Internet to your computer is called
    a) Uploading   b) Forwarding
    c) FTP   d) Downloading

(xi) A DNS client is called _____
    a) DNS updater   b) DNS resolver
    c) DNS handler   d) DNS user

(xii) DNS database contains _____
    a) name server records   b) hostname-to-address records
    c) hostname aliases   d) all of these

(xiii) The network layer concerns with

    a) Bits   b) Frames

    c) packets   d) bytes

(xiv) The packet of information at the application layer is called _____

    a) Packet   b) Message

    c) Segment   d) Frame

(xv) To deliver a message to the correct application program running on a host, the _____ address must be consulted.

    a) IP   b) MAC

    c) Port   d) HTTP

(xvi) Electronic mail uses which Application layer protocol?

    a) SMTP   b) HTTP

    c) FTP   d) SIP

(xvii) DHCP is used for _____

    a) IPv6   b) IPv4

    c) Both IPv6 and IPv4   d) MAC

(xviii) The DHCP server can provide the _____ of the IP addresses.

    a) dynamic allocation   b) automatic allocation

    c) static allocation   d) all of the mentioned

(xix) FTP server listens for connection on port number

    a) 20   b) 21

    c) 22   d) 23

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

    a) Stream of bytes   b) Sequence of characters

c) Lines of data   d) Packets

(xxi) To achieve reliable transport in TCP, _____ is used to check the safe and sound arrival of data

a) Packet   b) Buffer

c) Segment   d) Acknowledgment

(xxii) TCP/IP model does not have _____ layer but OSI model have this layer.

a) session layer   b) transport layer

c) application layer   d) physical layer

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

a) network layer   b) transport layer

c) session layer   d) data link layer

(xxiv) Which layer provides the services to user?

a) application layer   b) session layer

c) presentation layer   d) data link layer

(xxv)

What will be the output of the following PHP code ?

```php
<?php

  $age = array("Harry" => "21", "Ron" => "23","Malfoy" => "21");

  array_pop($age);

  print_r(array_change_key_case($age, CASE_UPPER));

?>
```

a) Array ([Harry] => 21 [Ron] => 23   b) Array ([HARRY] => 21 [RON] => 23
[Malfoy] => 21)   [MALFOY] => 21)

c) Array ([HARRY] => 21 [RON] => 23 d) Array ([Harry] => 21 [Ron] => 23)
)

(xxvi)

What will be the output of the following PHP code ?

```php
<?php

    $i = 0;

    while ($i = 10)

    {

        print "hi";

    }

    print "hello";

?>
```

    a) Hello   b) infinite loop

    c) hihello   d) Error

(xxvii) In HTTPS, 's' stands for

    a) Simple   b) Secured

    c) Server   d) Standard

(xxviii) The HTTP response message leaves out the requested object when
_____ method is used

    a) GET   b) POST

c) HEAD   d) PUT

(xxix) Which Event Will Be Used When A Connection To The Server Is Opened.

    a) Onmessage   b) Onopen

    c) Onerror   d) Oreo

(xxx) Which of the following selector selects the elements that are checked?

    a) E ~ F   b) ::after

    c) :checked   d) Notify

(xxxi) Which of the following selector selects elements that do not match the selector s?

    a) :!(s)   b) :nth-child(s)

    c) :not(s)   d) :new

(xxxii) Which of the following selector selects the element that is the target of a referring URI?

    a) :target   b) :selection

    c) ::selection   d) :URI

(xxxiii) What type of selector is used in this case? p {line-height: 150%;}

    a) class Selectors   b) element Selectors

    c) id Selectors   d) child Selectors

(xxxiv) The _____ attribute is used to define the name(s) of the class(es) to which a particular tag belongs.

    a) Class   b) element

    c) id   d) root

(xxxv) Which of the following selectors selects the specified elements of type E

with a particular class value?

a) E.class

b) E ~ F

c) *

d) E, F, G

(xxxvi) 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

(xxxvii) Which property sets the coordinates of the clipping shape that exposes or hides the content of absolutely positioned elements

a) Clammper

b) Clip

c) clear

d) cut

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

a) Pre

b) border-color

c) border-collapse

d) table

(xxxix)

What will be the output of the following php code?

```php
<?php

$num = 1;

$num1 = 2;

print $num . "+". $num1;

?>
```

a) 3

b)

1+2

c) 12   d) Error

(xl) Cookie is a

a) Server side piece of information   b) Client side piece of information

c) System generated information   d) Outsider access

(xli)

What will be the output of the following php code?

```php
<?php

$states = array("karnataka" => array

( "population" => "11,35,000", "captial" => "Bangalore"),

"Tamil Nadu" => array( "population" => "17,90,000",

"captial" => "Chennai") );

echo $states["karnataka"]["population"];

?>
```

a) karnataka 11,35,000   b) 1135000

c) population 11,35,000   d) karnataka population

(xlii) Which in-built function will add a value to the end of an array?

a) array_unshift()   b) into_array()

c) inend_array()   d) array_push()

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

a) count()　　　　　　　　　　　　b) array_count()

c) array_count_values()　　　　　　d) count_values()

(xliv) When you use the $_POST variable to collect data, the data is visible to.

a) None　　　　　　　　　　　　　b) Only by you

c) Everyone　　　　　　　　　　　d) Selected few

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

a) 5　　　　　　　　　　　　　　b) 7

c) 6　　　　　　　　　　　　　　d) 8

(xlvi) You can extend the exception base class, but you cannot override any of the preceding methods because they are declared as.

a) Protected　　　　　　　　　　b) Final

c) static　　　　　　　　　　　　d) private

(xlvii)

What will be the output of the following PHP code?

```php
<?php

function calc($price, $tax="")

{

    $total = $price + ($price * $tax);

    echo "$total";

}

calc(42);
```

?>

   a) Error   b) 0

   c) 42   d) 84

(xlviii) Which function is used to erase all session variables stored in the current session?

   a) session_destroy()   b) session_change()

   c) session_remove()   d) session_unset()

(xlix)

What will be the output of the following PHP code ?

```php
<?php

$i = 0;

$j = 0;

if ($i && ($j = $i + 10)) {

  echo "true";

}

echo $j;

?>
```

   a) 0   b) 10

   c) true0   d) true10

(l) If there is no error, then what will the error() method returns?

   a) Empty String   b) 0

(li) Which of the following advanced OOP features is/are not supported by PHP?

a) Method overloading

b) Multiple Inheritance

c) Object Cloning

d) Single Inheritance

(lii) Which one of the following is the right way to clone an object?

a) _clone(targetObject);

b) destinationObject = clone targetObject;

c) destinationObject = _clone(targetObject);

d) destinationObject = clone(targetObject);

(liii) The class to which the parent class inherits features is called _____

a) Child class

b) Parent class

c) Super class

d) Base class

(liv) If your object must inherit behavior from a number of sources you must use a/an

a) Interface

b) Object

c) Abstract class

d) Static class

(lv) Which feature allows us to call more than one method or function of the class in single instruction?

a) Typecasting

b) Method Including

c) Method adding

d) Method chaining

(lvi) What is the description of Error level E_ERROR?

a) Fatal run-time error

b) Near-fatal error

c) Compile-time error

d) Fatal Compile-time error

(lvii) Which of the following statements causes PHP to disregard repeated error messages that occur within the same file and on the same line?

a) ignore_repeated_errors

b) ignore_repeat_error

c) repeatedly_ignore_error

d) repeated_error_ignore

(lviii) 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

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

a) systemlog()

b) syslog()

c) log_system()

d) sys_log()

(lx) 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

(lxi) The functionalities of presentation layer includes

a) Data compression

b) Data encryption

c) Data description

d) All of the mentioned

(lxii) In the OSI model, as a data packet moves from the lower to the upper layers, headers are _____

a) Added

b) Removed

c) Rearranged

d) Returned

(lxiii) Which provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network?

a) Visual Private Network

b) Virtual Protocol Network

c) Virtual Protocol Networking

d) Virtual Private Network

(lxiv) What types of protocols are used in VPNs?

a) Application level protocols

b) Tunnelling protocols

c) Network protocols

d) Mailing protocols

(lxv) Which is the key exchange algorithm used in CipherSuite parameter?

a) RSA

b) Fixed Diffie-Hellman

c) Ephemeral Diffie-Hellman

d) Any of the mentioned

(lxvi) What is the size of the RSA signature hash after the MD5 and SHA-1 processing?

a) 42 bytes

b) 32 bytes

c) 36 bytes

d) 48 bytes

(lxvii) An HTTP connection uses port _____ whereas HTTPS uses port _____ and invokes SSL.

a) 40; 80

b) 60; 620

c) 80; 443

d) 620; 80

(lxviii) Which is the lowest level in the SSH protocol stack?

a) SSH Transport Layer Protocol

b) TCP

c) IP

d) SSH User Authentication Protocol

(lxix) The protocol 'POP' stands for-

a) Personal Office Protocol

b) Post Office Protocol

c) Privacy Overall Protocol

d) Privacy Over Protocol

(lxx) On which port will the server generally listen to for SMTP?

a) port 35

b) port 63

c) port 25

d) port 65