BRAINWARE UNIVERSITY
Term End Examination 2020 - 21
Programme – Bachelor of Science (Honours) in Computer Science
Course Name – Internet Technologies
Course Code - BCS504B
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 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 is/are layers in the OSI model, but not in 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) 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

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

a) HTTP   b) DHCP

c) DNS   d) NAT

(vi) 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

(vii) Default port for SMTP is

    a) 21   b) 23

    c) 25   d) 80

(viii) The values GET, POST, HEAD etc are specified in _____ of HTTP message

    a) Request line   b) Header line

    c) Status line   d) Entity body

(ix) Pseudo-classes In CSS

    a) Match A Specified Element   b) Select The Active Links

    c) Are Used To Select All The Visited Links   d) Are Used To Define A Special State Of An Element

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

    a) Onmessage   b) Onopen

    c) Onerror   d) Oreo

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

    a) E ~ F   b) ::after

    c) checked   d) Notify

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

    a) :empty   b) :nochild

c) :inheritance   d) :no-child

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

a) :element   b) :empty

c) :enabled   d) :nochild

(xiv) 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

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

a) :target   b) :selection

c) ::selection   d) :URI

(xvi) Which of the following selector applies styles to elements that are valid per HTML5 validations set either with the pattern or typeattributes?

a) :valid   b) :required

c) :optional   d) :invalid

(xvii) Which of the following selector selects all elements of E that have the attribute attr that end with the given value?

a) E[attr^=value]   b) E[attr$=value]

c) E[attr*=value]   d) E[attr%=value]

(xviii) What type of selector is used in this case?

a) class Selectors   b) element Selectors

c) id Selectors   d) child Selectors

(xix) By applying an _____ a style can be applied to just a single tag.

a) class rule b) element rule

c) id rule d) Selectors rule

(xx) 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

(xxi) Which of the following selectors selects any tag with an id attribute set?

a) E#id b) .class

c) #id d) E*id

(xxii) Which of the following selectors selects direct descendants?

a) E > F b) E F

c) E + F d) E ~ F

(xxiii) Which of the following selectors selects siblings?

a) E.class b) E ~ F

c) * d) E, F, G

(xxiv) 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

(xxv) Which of the following selectors selects adjacent siblings?

a) E > F b) E F

c) E + F d) E ~ F

(xxvi) 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

(xxvii) 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

(xxviii) 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

(xxix) Which property specifies the background color of an element?
    a) background-color   b) border
    c) color   d) display

(xxx) Which property specifies if/how an element is displayed?
    a) background-color   b) border
    c) color   d) display

(xxxi) 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

(xxxii) 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

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

a) Image	b) background-image
c) float	d) background-color

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

a) Pre	b) border-color
c) border-collapse	d) table

(xxxv) Throw keyword is related to

a) Exception Handling	b) Array
c) Unboxing	d) Object creation

(xxxvi) Which of the following is/are an exception?

a) OutOfBoundException	b) LogicalException
c) DomainException	d) All of these

(xxxvii) 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()

(xxxviii) Which directive determines whether PHP scripts on the server can accept file uploads?

a) file_uploads	b) file_upload
c) file_input	d) file_intake

(xxxix) Which one of the following methods can be used to diagnose and display information about a MySQL connection error?

a) connect_errno()	b) connect_error()
c) mysqli_connect_errno()	d) mysqli_connect_error()

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

    a) Empty String   b) 0

    c) 1   d) None of these

(xli) Which one of the following methods is responsible for sending a query to the database?

    a) send_query()   b) query()

    c) sendquery()   d) mysqli_query()

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

    a) Method overloading   b) Multiple Inheritance

    c) Both a and b   d) Single Inheritance

(xliii) Which version of PHP introduced the advanced concepts of OOP?

    a) PHP 4   b) PHP 5

    c) PHP 5.3   d) PHP 6

(xliv) 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);

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

    a) Child class   b) Parent class

    c) Super class   d) Base class

(xlvi) If one intends to create a model that will be assumed by a number of closely related objects, which class must be used?

    a) Normal class   b) Static class

    c) Abstract class   d) Interface

(xlvii) 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

(xlviii) Which method is used to tweak an object's cloning behavior?

a) clone()   b) __clone()

c) _clone   d) object_clone()

(xlix) 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

(l) Which magic method is used to implement overloading in PHP?

a) __call   b) __invoke

c) __wakeup   d) __unset

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

a) 14   b) 15

c) 16   d) 17

(lii) 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

(liii) 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

(liv) 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()

(lv) 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

(lvi) What does SPL stand for?

a) Standard PHP Library

b) Source PHP Library

c) Standard PHP List

d) Source PHP List

(lvii) 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

(lviii) 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

(lix) Verification of a login name and password is known as:

a) Configuration

b) accessibility

c) authentication

d) logging in

(lx) The functionalities of presentation layer includes

a) Data compression

b) Data encryption

c) Data description   d) All of these

(lxi) Delimiting and synchronization of data exchange is provided by
    a) Application layer   b) Session layer
    c) Transport layer   d) Link layer

(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) VPN is abbreviated as _____
    a) Visual Private Network   b) Virtual Protocol Network
    c) Virtual Private Network   d) Virtual Protocol Networking

(lxiv) 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

(lxv) 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

(lxvi) What types of protocols are used in VPNs?
    a) Application level protocols   b) Tunnelling protocols
    c) Network protocols   d) Mailing protocols

(lxvii) 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

(lxviii) Site-to-Site VPN architecture is also known as _____

    a) Remote connection based VPNs   b) Peer-to-Peer VPNs

    c) Extranet based VPN   d) Country-to-country VPNs

(lxix) For secure connection, Remote access VPNs rely on _____ and _____

    a) IPSec, SSL   b) L2TP, SSL

    c) IPSec, SSH   d) SSH, SSL

(lxx) _____ masks your IP address.

    a) Firewall   b) Antivirus

    c) VPN   d) Incognito mode