

## Chapter: 01

## Problem Solving

## Objective

Q 1: The steps of defining a problem are:

- (A) Four (B) Three (C) Two (D) One

Q 2: How many Ws are identified in the understanding a problem?

- (A) Infinity (B) five (C) Three (D) One

Q 3: Dividing a complex problem into smaller problems is called:

- (A) Prototype (B) Act it out (C) Guess and improve (D) Divide and conquer

Q 4: The selection of strategy depends upon the:

- (A) None of these (B) Flowchart (C) Solution (D) Problem

Q 5: Candid solution refers to:

- (A) None of these (B) Unplanned (C) Checking (D) Planning

Q 6: Short key to search in web browser is:

- (A) CTRL+F (B) CTRL+R (C) CTRL+F4 (D) CTRL+S

Q 7: Which solutions are not reached through proper algorithms or work planning?

- (A) Best solution (B) Strategized Solution (C) Candid solution (D) Prepared solution

Q 8: ..... is a graphical representation of an algorithm.

- (A) Solution (B) Flowchart (C) Graph (D) Matrix

Q 9: Which symbol in the flowchart is used to either start or end the flowchart?

- (A) Decision (B) Process (C) Connector (D) Terminal

Q10: A flowchart is a ..... presentation of the steps to solve a problem.

- (A) All of these (B) Mentally (C) Written (D) Graphical

Q11: In a flowchart, we use input, output, decision making and:

- (A) All of these (B) Images (C) Processing (D) Data

Q12: How many things are used in a flowchart?

- (A) Five (B) Four (C) Three (D) One

Q13: Input means ..... data from the user.

- (A) None of these (B) Processing (C) Giving (D) Taking

Q14: A flowchart clearly describes a process through..... and text.

- (A) None of these (B) Program (C) Symbols (D) Data

Q15: ..... used to determine the flow of steps in a flowchart:

- (A) Decision (B) Processing (C) Terminal (D) Flow line

Q16: ..... symbol indicates the start and end of a flowchart:

- (A) Decision (B) Processing (C) Terminal (D) Flow line

Q17: ..... symbol represents the operation of change value in a flowchart:

- (A) Decision (B) Process (C) Terminal (D) Flow line



Q18: If a flowchart doesn't fit on a page, then we use ..... to connect parts of a flowchart on different pages.

- (A) Connector (B) Decision (C) Terminal (D) Flow line

Q19: ..... is a set of steps to solve a problem. It's written in a natural language.

- (A) All of these (B) Problem (C) Algorithm (D) Flowchart

Q20: ..... symbol represents the starting point of an algorithm.

- (A) Stop (B) Set (C) Input (D) Start

Q21: ..... symbol is used to get input from a user.

- (A) Output (B) Set (C) Input (D) Start

Q22: It is used to update the value of existing data:

- (A) Output (B) If else (C) Set (D) Input

Q23: symbol is used to check the condition:

- (A) Goto (B) If else (C) Set (D) Input

Q24: ..... Symbol is used to transfer control to a certain step in program.

- (A) Output (B) Goto (C) If else (D) Set

Q25: How many algorithms can there be to solve a problem?

- (A) None (B) More than one (C) Two (D) One

Q26: After solving a problem, we need to .....

- (A) All of these (B) Output (C) Test (D) Process

Q27: Find mistakes made while solving any problem using:

- (A) None of these (B) Algorithm (C) Flowchart (D) Testing

Q28: Types of test data is:

- (A) Five (B) Four (C) Three (D) Two

Q29: ..... Solution is tested on extreme values in test data.

- (A) All of these (B) Absent data (C) Wrong data formats (D) Boundary test data

Q30: ..... means to confirm that the solution is for the problem that needed to be solved:

- (A) None of these (B) Both of these (C) Verification (D) Validation

Q31: ..... means to confirm whether the solution is correct or not:

- (A) All of these (B) Flowchart (C) Verification (D) Validation

Q32: ..... means to test if the required solution is there:

- (A) Flowchart (B) Validation (C) Algorithm (D) Verification

Q33: In a ..... error, the solution is working but not giving required results:

- (A) Runtime error (B) Syntax error (C) Logical error (D) Random error

Q34: ..... is a technique used to test algorithms.

- (A) None of these (B) Trace table (C) Process (D) Flowchart

Q35: Displays each column in the trace table.

- (A) All of these (B) Mistakes of data (C) Values of data (D) Names of data

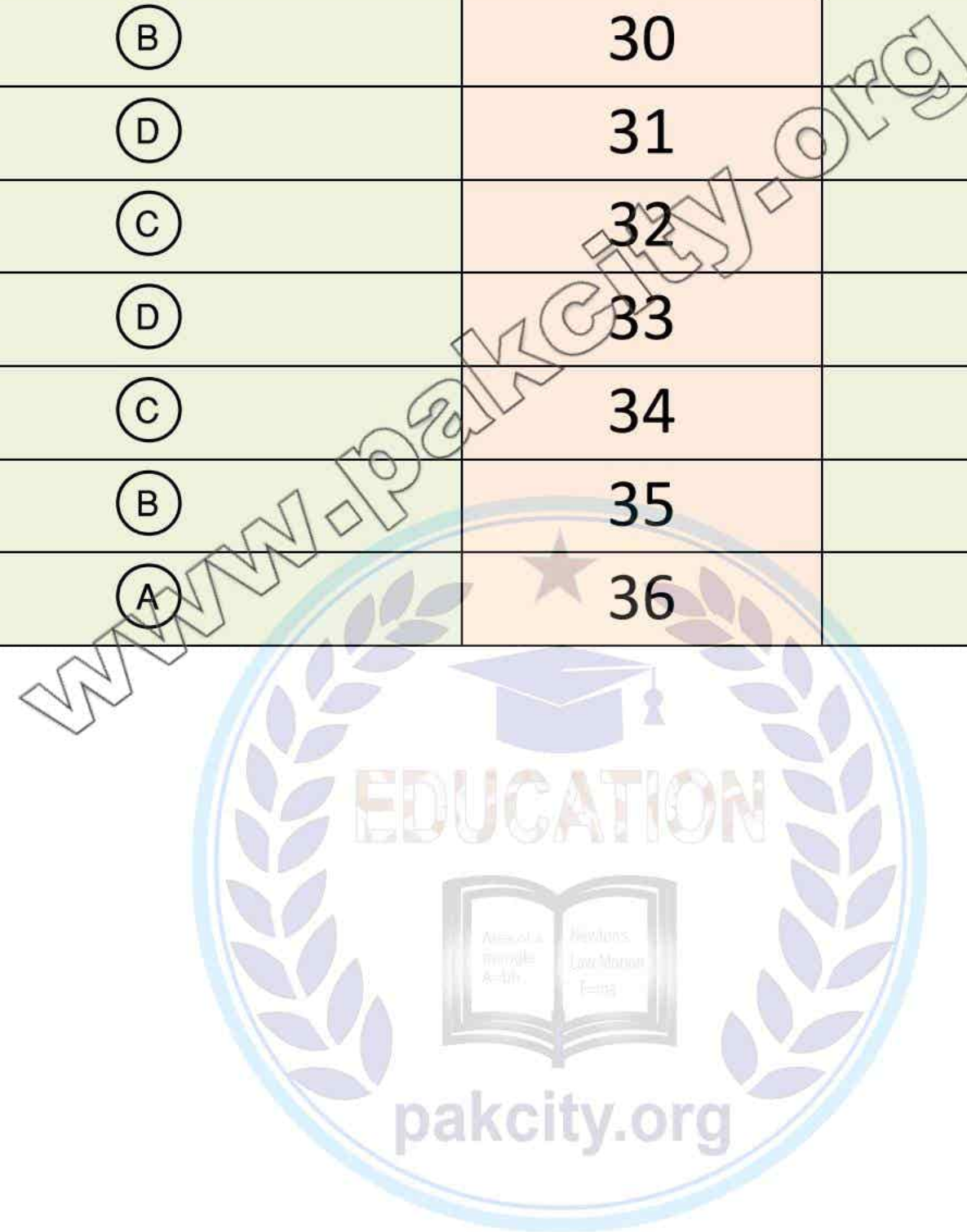


Q36: Displays each row in the trace table.

- Ⓐ All of these      Ⓑ Mistakes of data      Ⓒ Values of data      Ⓓ Names of data

### Answers:

1	Ⓑ	19	Ⓒ
2	Ⓑ	20	Ⓓ
3	Ⓓ	21	Ⓒ
4	Ⓓ	22	Ⓒ
5	Ⓑ	23	Ⓑ
6	Ⓐ	24	Ⓑ
7	Ⓒ	25	Ⓑ
8	Ⓑ	26	Ⓒ
9	Ⓓ	27	Ⓓ
10	Ⓓ	28	Ⓐ
11	Ⓒ	29	Ⓓ
12	Ⓑ	30	Ⓒ
13	Ⓓ	31	Ⓓ
14	Ⓒ	32	Ⓓ
15	Ⓓ	33	Ⓒ
16	Ⓒ	34	Ⓑ
17	Ⓑ	35	Ⓓ
18	Ⓐ	36	Ⓒ





## Chapter: 02

## Binary System

## Objective

Q 1: Hexadecimal system has total ..... numbers.

- (A) 15                      (B) 18                      (C) 16                      (D) 17

Q 2: The system under which the numerical system is expressed is called:

- (A) All of these              (B) Binary system              (C) Number system              (D) Decimal system

Q 3: What numerical system do we use in our daily life?

- (A) None of these              (B) Binary system              (C) Number system              (D) Decimal system

Q 4: The base of decimal system is:

- (A) 16                      (B) 10                      (C) 2                      (D) 0,1

Q 5: The base of binary system is:

- (A) 16                      (B) 10                      (C) 2                      (D) 0,1

Q 6: Binary numeric systems have numbers:

- (A) 0-16                      (B) 10-16                      (C) 0-9                      (D) 0,1

Q 7: The binary value of the letter A is:

- (A) 1001001              (B) 11001100              (C) 10000001              (D) 1000001

Q 8: The decimal value of the letter A is:

- (A) 65                      (B) 50                      (C) 46                      (D) 35

Q 9: The value of A in hexadecimal system is:

- (A) 15                      (B) 12                      (C) 10                      (D) 0,1

Q10: Number "17" is equal to ..... in binary system.

- (A) 10100                      (B) 10001                      (C) 10110                      (D) 10000

Q11: To convert a decimal number into binary number, we divide the number by:

- (A) 16                      (B) 0,1                      (C) 10                      (D) 2

Q12: The number resulting from the division of one number by another is called:

- (A) None                      (B) Both                      (C) Quotient                      (D) Remainder

Q13: (69610)<sub>10</sub> in hexadecimal are:

- (A) (6FAB)<sub>16</sub>                      (B) (10FEA)<sub>16</sub>                      (C) (6FEA)<sub>16</sub>                      (D) (10FAB)<sub>15</sub>

Q14: (C9)<sub>16</sub> in binary is:

- (A) 11001001                      (B) 11000001                      (C) 10001101                      (D) 11011001

Q15: The types of memory are:

- (A) 4                      (B) 3                      (C) 2                      (D) 1

Q16: The example of volatile memory is:

- (A) All of these              (B) CD                      (C) Hard Disk                      (D) RAM

Q17: In which memory is the data temporarily stored?

- (A) None of these              (B) Both of these              (C) Non-volatile memory              (D) Volatile memory



Q18: Data is stored in memory cards:

- (A) Cant saved      (B) Permanently      (C) Temporary      (D) For one month

Q19: Digital computer saved data in the form of:

- (A) None of these      (B) Binary      (C) Hexadecimal      (D) Decimal

Q20: How many bytes will it take to save the name "Pakistan" in computer memory?

- (A) 64      (B) 32      (C) 16      (D) 8

Q21: One byte contains bits:

- (A) 1024      (B) 8      (C) 4      (D) 2

Q22: One kilo byte contains bytes:

- (A) 3062      (B) 2048      (C) 1024      (D) 8

Q23: The least amount of space is required to store any type of information in a computer.

- (A) None of these      (B) 1024 bytes      (C) 8 bytes      (D) One byte

Q24: 1 petabyte is equal to.....bytes:

- (A)  $(1024)^7$       (B)  $(1024)^5$       (C)  $(1024)^6$       (D)  $(1024)^4$

Q25: Expression  $(A+B).(A+C)$  is equal to:

- (A)  $A+(B+C)$       (B)  $A.(B.C)$       (C)  $A.B+A.C$       (D)  $A+(B.C)$

Q26: The order of application of two separate terms is not important in:

- (A) Identity law      (B) Distributive law      (C) Commutative law      (D) Associative law

Q27: "it is cold outside" is:

- (A) None of these      (B) Both      (C) Moral propositions      (D) Boolean Proposition

Q28: Preposition indicates the value:

- (A) None of these      (B) Both      (C) FALSE      (D) TRUE

Q29: AND operator can be denoted by:

- (A) None      (B) -      (C) +      (D) .

Q30: OR operator can be denoted by:

- (A) None      (B) -      (C) +      (D) .

Q31: ..... used to test the preposition.

- (A) None of these      (B) Calculator      (C) Simple table      (D) Truth table

Q32: By negating a negative preposition, we get a ..... preposition:

- (A) None of these      (B) Both      (C) Positive      (D) Negative





Answers:

1	(C)	19	(B)
2	(C)	20	(D)
3	(D)	21	(B)
4	(B)	22	(C)
5	(C)	23	(D)
6	(D)	24	(B)
7	(D)	25	(D)
8	(A)	26	(C)
9	(C)	27	(D)
10	(B)	28	(B)
11	(D)	29	(D)
12	(C)	30	(C)
13	(B)	31	(D)
14	(A)	32	(C)
15	(C)		
16	(D)		
17	(D)		
18	(B)		





## Chapter: 03

## Networks

## Objective

Q 1: A computer network is a ..... of computer systems.

- (A) All of these      (B) Device      (C) Group      (D) System

Q 2: Networks are connected together to make a large:

- (A) None of these      (B) Network      (C) System      (D) Group

Q 3: The example of hardware sharing is:

- (A) All of these      (B) Data      (C) File      (D) Printer

Q 4: The example of ATM machine is:

- (A) Internet sharing      (B) Application sharing      (C) Hardware sharing      (D) File Server

Q 5: The computer provides space for storing data, called:

- (A) None of these      (B) Both      (C) File Server      (D) Client

Q 6: The example of server is:

- (A) All of these      (B) Dropbox      (C) Network      (D) Computer

Q 7: A server is a system that ..... services:

- (A) None of these      (B) Both      (C) Provides      (D) Gets

Q 8: The client is:

- (A) None of these      (B) Both      (C) Software      (D) Hardware

Q 9: The types of connection are:

- (A) Four      (B) Three      (C) Two      (D) One

Q10: The direct link between the two devices is an example of:

- (A) None of these      (B) Both of these      (C) Multi point connection      (D) Point to point connection

Q11: The example of multi point connection is:

- (A) All of these      (B) Wi-Fi      (C) Remote      (D) TV

Q12: The types of topology are:

- (A) Four      (B) Three      (C) Two      (D) One

Q13: In Star topology, all devices are connected to a common point via a cable, this common point is called:

- (A) Cable      (B) Server      (C) Button      (D) Hub

Q14: ..... topology connects all devices with each other through a direct link.

- (A) Mesh topology      (B) Ring topology      (C) Star topology      (D) Bus topology

Q15: In which topology data exchange is faster?

- (A) Mesh topology      (B) Ring topology      (C) Star topology      (D) Bus topology

Q16: The components of communication system are:

- (A) Five      (B) Four      (C) Three      (D) One

Q17: Sender is called:

- (A) None of these      (B) Both of these      (C) Source      (D) Transmitter



Q18: The example of receiver is:

- (A) All of these      (B) Internet      (C) Cable      (D) Printer

Q19: In a data communication system, a message is sent in the form of:

- (A) None of these      (B) Information      (C) Internet      (D) Packet

Q20: How many parts of message?

- (A) Four      (B) Three      (C) Two      (D) One

Q21: Control information of message is called:

- (A) None of these      (B) Both of these      (C) Header      (D) Play load

Q22: A ..... is a formal agreement between two parties is called:

- (A) Protocol      (B) Information      (C) Header      (D) Message

Q23: The example of transmission medium is:

- (A) Internet      (B) Fiber optical cable      (C) Printer      (D) Message

Q24: Communications protocols cover:

- (A) Above all      (B) Correction      (C) Error detection      (D) Authentication

Q25: The receiver must be capable of accepting the:

- (A) Information      (B) Address      (C) Message      (D) Protocol

Q26: How many layers in TCP/IP protocol?

- (A) Two      (B) Four      (C) Five      (D) Six

Q27: .....protocol is used for the purpose of transferring files from one computer to another:

- (A) FTP      (B) HTTP      (C) SMTP      (D) www

Q28: We can use transfer webpages between a client and a web server are:

- (A) FTP      (B) HTTP      (C) SMTP      (D) www

Q29: Fixed IP address is called:

- (A) Static      (B) Dynamic      (C) Fixed      (D) All of these

Q30: It is a unique identifier:

- (A) IP      (B) Router      (C) DHCP      (D) Server

Q31: The standards of IP addressing are:

- (A) One      (B) Two      (C) Three      (D) Four

Q32: 172.16.54.1 is an example of:

- (A) IPv4      (B) IPv6      (C) IPv8      (D) IPv10

Q33: The IPv4 is divided into how many groups?

- (A) Two      (B) Four      (C) Six      (D) Eight

Q34: The maximum bits are required for every group of IPv4 is:

- (A) Two      (B) Four      (C) Six      (D) Eight

Q35: How many bits in IPv6?

- (A) 32      (B) 64      (C) 128      (D) 256

Q36: How many groups in IPv6?

- (A) Two      (B) Four      (C) Six      (D) Eight



Q37: The IPv4 address is made up of:

- (A) 31                      (B) 29                      (C) 32                      (D) 30

Q38: DHCP stands for:

- (A) Data hosting computer protocol                      (B) Dynamic host computer protocol  
(C) Dynamic host configuration protocol                      (D) None of these

Q39: Routing is process of taking data from one device and sending it to another device in different:

- (A) Channel                      (B) Network                      (C) Path                      (D) Area

Q40: The example of networking device is:

- (A) Internet                      (B) Browser                      (C) Router                      (D) All of these

Q41: .....is usually placed at the meeting point of two networks.

- (A) Router                      (B) Connection                      (C) Cable                      (D) All of these

Q42: We get the internet service from:

- (A) www                      (B) ISP                      (C) HTTP                      (D) SMTP

## Answers:

1	(C)	15	(A)	29	(A)
2	(B)	16	(A)	30	(A)
3	(D)	17	(B)	31	(B)
4	(B)	18	(D)	32	(A)
5	(C)	19	(D)	33	(B)
6	(A)	20	(C)	34	(D)
7	(C)	21	(C)	35	(C)
8	(B)	22	(A)	36	(D)
9	(C)	23	(B)	37	(C)
10	(D)	24	(A)	38	(C)
11	(B)	25	(C)	39	(B)
12	(A)	26	(C)	40	(C)
13	(D)	27	(A)	41	(A)
14	(A)	28	(B)	42	(B)



## Chapter: 04

## Data and Privacy

## Objective



Q 1: Which of the following doesn't include the types of software piracy?

- (A) Soft lifting      (B) Liability      (C) Client server overuse      (D) Online piracy

Q 2: Which of the following is not a cybercrime?

- (A) Hacking      (B) Phishing crime      (C) Identity theft      (D) Decryption

Q 3: Which of the following are not the characteristics of phishing emails?

- (A) Official data breach notification      (B) Email account update  
(C) IT reminder      (D) Similar domain of actual website

Q 4: Which of the following are not characteristics of phishing website?

- (A) Similar domain of actual website      (B) Using of forms to collect visitors  
(C) Actual link to web content      (D) Email account updates

Q 5: The example of piracy is:

- (A) Book      (B) Poem      (C) Software      (D) All of these

Q 6: Which of the following is not a characteristic of good password?

- (A) Is eight characters long      (B) Doesn't contains username  
(C) Contains uppercase letters      (D) Password is your name only

Q 7: Sometimes, some malicious user disguises himself as our friend tries to get some confidential information. This is called:

- (A) Phishing      (B) Piracy      (C) Copy      (D) All of these

Q 8: Patent is a way to protect an:

- (A) Software      (B) Idea      (C) Copy      (D) None of these

Q 9: Copyright law says that some idea or product cannot be:

- (A) Patient      (B) Copy      (C) Secrete      (D) All of these

Q10: ..... is a serious attack on a computer system.

- (A) Trade secrets      (B) Copyright      (C) Patient      (D) Sabotage

Q11: There are certain companies, called ..... that solely exist to collect, aggregate, buy and sell consumer information.

- (A) Hackers      (B) Data Brokers      (C) NADRA      (D) None of these

Q12: Primarily, how many aspects do we want to keep our data safe?

- (A) One      (B) Two      (C) Three      (D) Four

Q13: The information that is stored with web surfers is called:

- (A) Data      (B) Cookies      (C) Information      (D) Patient

Q14: Encryption is the process of ..... data.

- (A) Encoding      (B) Decoding      (C) Both of these      (D) None of these

Q15: Encoding means conversion of data to an unreadable format which is called:

- (A) Decoding      (B) Password      (C) Encrypt      (D) Cipher text



Q16: ..... is used to protect sensitive data, including personal information for individuals.

- (A) Encryption    (B) Protection from hackers    (C) Patient    (D) Password

Q17: ..... was a Roman politician and military general.

- (A) Cipher    (B) Vigenere    (C) Caesar    (D) None of these

Q18: Within one-character substitution to the right, the plaintext "PAKISTAN" would be encrypted into:

- (A) OZJHRSZM    (B) QBIJTUBO    (C) NATSIKAP    (D) None of these

Q19: Vigenere cipher uses a ..... for substituting the letters of plaintext.

- (A) Book    (B) Symbols    (C) Method    (D) Table

Q20: Vigenere Cipher table consists of ..... rows and ..... columns.

- (A) 16, 16    (B) 22, 22    (C) 26, 26    (D) 32, 32

Q21: Messages encrypted with the Caesar cipher are very ..... to crack.

- (A) Easy    (B) Difficult    (C) Complex    (D) None of these

Q22: Most common letter used in the English language:

- (A) A    (B) E    (C) O    (D) S

Q23: ..... keys are used to read an encrypted message.

- (A) Password    (B) Cryptographic    (C) Encryption    (D) All of these

Q24: A good password must contain at least how many characters?

- (A) Two    (B) Four    (C) Six    (D) Eight

Q25: A crime in which computer network or devices are used is called:

- (A) Hacking    (B) Cyber crime    (C) Virus    (D) None of these

Q26: Hackers may use fake ..... to trap someone to give passwords and account information.

- (A) E-mails    (B) Passwords    (C) Accounts    (D) All of these

Q27: This is a ..... if the cardholder claims chargeback.

- (A) Fraud    (B) Identity theft    (C) Transactional fraud    (D) None of these

Q28: Illegally accessing someone else's computer is called:

- (A) Theft    (B) Hacking    (C) Piracy    (D) All of these

Q29: ..... is the fraudulent attempt by sending emails to obtain sensitive information such as password and credit card details:

- (A) Hacking    (B) Software    (C) Phishing    (D) All of these

Q30: In computing, a ..... is a cyber-attack to make a machine or network resource unavailable.

- (A) Hacking    (B) DOS    (C) Network    (D) All of these



Answers:

1	(B)	15	(D)	29	(C)
2	(D)	16	(A)	30	(B)
3	(D)	17	(C)		
4	(D)	18	(B)		
5	(D)	19	(D)		
6	(D)	20	(C)		
7	(A)	21	(A)		
8	(B)	22	(B)		
9	(B)	23	(B)		
10	(D)	24	(D)		
11	(B)	25	(B)		
12	(C)	26	(A)		
13	(B)	27	(C)		
14	(A)	28	(B)		





## Chapter: 05

## Designing Website

## Objective

Q 1: Web server replies in the form of:

- (A) HTML (B) CSS (C) FILE (D) NONE

Q 2: Language is used to create website:

- (A) CSS (B) HTML (C) C++ (D) None

Q 3: The term hypertext is derived from:

- (A) HTML (B) CSS (C) Hyper link (D) All of these

Q 4: The abbreviation of WWW is:

- (A) World Wide Web (B) Word Wide Web (C) Word Wide Website (D) None of these

Q 5: <p> tag ends with:

- (A) <p> (B) </p> (C) <p/> (D) <pp>

Q 6: Pair tags consist of start tag and ..... tag.

- (A) Mid (B) Content (C) End (D) None of these

Q 7: The tag used to write the paragraph is:

- (A) <p> (B) <para> (C) <paragraph> (D) <pp>

Q 8: The tag used to break the line is:

- (A) <p> (B) </p> (C) <br> (D) <hr>

Q 9: HTML document starts with ..... tag.

- (A) <htm> (B) <html> (C) </html> (D) <hr>

Q10: HTML document primarily consists of ..... sections:

- (A) One (B) Two (C) Three (D) Four

Q11: HTML is not a ..... language.

- (A) Programming (B) Markup (C) Both (D) None of these

Q12: Webpages can be created and modified by using:

- (A) Notepad ++ (B) Notepad (C) Text edit (D) All of above

Q13: An HTML element usually consists of a ..... Tags.

- (A) Start (B) End (C) Start and End (D) None of these

Q14: The ..... element is a container for metadata (data about data).

- (A) <body> (B) <head> (C) <title> (D) <html>

Q15: To save the HTML page, you can use ..... as file extension.

- (A) htm (B) Html (C) Both (D) None of above

Q16: There are ..... of headings in HTML document.

- (A) 4 (B) 5 (C) 6 (D) 7

Q17: Used to insert an extra space in the paragraph:

- (A) &nbsp; (B) &nbsp; (C) &spac: (D) <space>



Q18: The number of heading tags is:

- (A) One (B) Two (C) Four (D) Six

Q19: ..... used to enlarge text size.

- (A) font (B) size (C) font size (D) None of these

Q20: The latest version of HTML is:

- (A) HTML (B) HTML2 (C) HTMLA (D) HTML5

Q21: The tag for unordered list is:

- (A) <ol> (B) <tr> (C) <ul> (D) None of these

Q22: The tag for ordered list is:

- (A) <ul> (B) <ol> (C) <li> (D) <tr>

Q23: An individual list item can contain another entire list called:

- (A) Ordered list (B) Unordered list (C) Nested list (D) Definition list

Q24: In "body" tag ..... is used to make a picture of a background image of a webpage.

- (A) bg (B) background (C) Bag image (D) None

Q25: Tag used for images in a web page:

- (A) <img> (B) <image> (C) <background> (D) <bg>

Q26: ..... attribute provides an alternate text for an image.

- (A) alt (B) attr (C) text (D) All of these

Q27: Used to move from one page to another page:

- (A) Hyperlink (B) Table (C) List (D) All of these

Q28: The tag for hyperlink is:

- (A) <hyperlink> (B) <alt> (C) <a> (D) <hr>

Q29: A hyperlink can be applied to:

- (A) Image (B) Text (C) Both of these (D) None of these

Q30: ..... tag is used to display data in tabular form.

- (A) th (B) Tr (C) table (D) td

Q31: The tag for creating table in HTML is:

- (A) <tr> (B) <td> (C) <table> (D) <li>

Q32: The table row tag is:

- (A) <td> (B) <tr> (C) <row> (D) <hr>

Q33: Table header tag is:

- (A) <tr> (B) <td> (C) <header> (D) <th>

Q34: Attribute are used to spread a row to more than one row:

- (A) colspan (B) rowspan (C) Expand (D) None of these



# Answers:

1	(A)	15	(C)	29	(C)
2	(B)	16	(C)	30	(B)
3	(C)	17	(A)	31	(C)
4	(A)	18	(D)	32	(B)
5	(B)	19	(B)	33	(D)
6	(C)	20	(D)	34	(B)
7	(A)	21	(C)		
8	(C)	22	(B)		
9	(B)	23	(C)		
10	(B)	24	(B)		
11	(A)	25	(A)		
12	(D)	26	(A)		
13	(C)	27	(A)		
14	(B)	28	(C)		

