Note : Four choices A , B , C , D to each question are given. Which choice is correct , fill that circle in front of that Question Number on the Objective Bubble Sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.No.1 Software that is designed to be used by general public for their business tasks is called :

(1)   (A) Operating System   (B) Device Driver   (C) Utility Programs   (D) Packaged Software

(2)   The Protocol used by every Computer on the internet is :

(A) CSMA / CD   (B) DSL   (C) ISDN   (D) TCP / IP

(3)   A Computer is connected to a LAN using :   (A) NIC   (B) Modem   (C) Bridge   (D) Router

(4)   Image displayed on a Monitor Screen is composed of :

(A) Pixels   (B) DPI   (C) Resolution   (D) Digital Points

(5)   Concurrent Flow of bits is done in :

(A) Serial Transmission   (B) Parallel Transmission

(C) Synchronous Transmission   (D) Asynchronous Transmission

(6)   The ROM is also called :

(A) Direct Access Memory   (B) Read / Write Memory

(C) Non-Volatile Memory   (D) Main Memory

(7)   Product promotion , place and price relates to :

(A) Marketing   (B) Management   (C) Office Automation   (D) E - Commerce

(8)   The 7-bit-ASCII Code can represent :

(A) 64 Characters   (B) 128 Characters   (C) 256 Characters   (D) 65,536 Characters

(9)   The register used for Division and Multiplication is :   (A) PC   (B) MBR   (C) DX   (D) DS

(10)   For adding text in the top margin of every page in MS-Word we use :

(A) Header   (B) Footer   (C) Heading   (D) Title

(11)   Add New Hardware option exists in :

(A) My Computer   (B) Window Explorer   (C) Control Panel   (D) Start Button

(12)   Illegal copy of a Software is called : (A) Software Piracy   (B) Pirated Software   (C) Virus   (D) Antivirus

(13)   For the Custom Format # , ### , the number 1500 will be displayed as :

(A) 1,500   (B) 1500   (C) 0 , 015   (D) 0015

(14)   The number of arguments in SQRT ( ) function in MS Excel are :   (A) 1   (B) 2   (C) 3   (D) 4

(15)   Every webpage on the World Wide Web is accessed using :

(A) IP Address   (B) Domain Name   (C) Hyperlink   (D) URL

	Computer Science (Subjective)	Inter (Ist - A - Exam - 2024)
Time 2 : 10 Hours	Total Marks : 60	Session (2022 - 24) & (2023 - 25)

BWP-24

Note : It is compulsory to answer any (6 - 6) parts each from Q.No.2 , Q.No.3 and Q.No.4 while attempt any (03) Questions from Part II. Write same Question Number and its Part Number as given in the Question Paper.

Make Diagram where necessary.	**Part - I**	18 x 2 = 36

Q.No.2 (i) Enlist any two differences between Mouse and Trackball.

(ii) Convert 128 Bytes of memory into Bits.

(iii) How would you elaborate Workgroup Computing?

(iv) What is FTP?

(v) Write down the use of Network-Interface-Card.

(vi) How do devices communicate in bus Topology?

(vii) State the functions of Network Layer.

(viii) How would you define Baseband?

(ix) What is an External Modem?

Q.No.3 (i) Why RAM is called Volatile Memory?

(ii) How does Cache Memory works ?

(iii) Differentiate between CX and DX Register.

(iv) How does Fetch-Decode-Execute cycle of CPU work?

(v) Give four Biometric methods to prove your identity to log on a system.

(vi) What is Boot Sector Virus?

(vii) What do you mean by Security Violations?

(viii) What is meant by IP Addressing?

(ix) Write name of four Search Engine.

Q.No.4 (i) Define Page Margin and Page Size in Word Processor.

(ii) What is Formatting in MS-Word?

(iii) Define Word Art in MS-Word.

(iv) Why " Thesaurus " are used in Word Processing?

(v) What do you mean by 3D- Worksheet?

(vi) What is Absolute reference in a Worksheet?

(vii) What is the most powerful feature of Spread Sheet?

(viii) What is the purpose of Formula Bar in MS-Excel?

(ix) Write a function to find Square Root of the number in the Cell A10.

Part - II	3 x 8 = 24

Q.No.5 What is Software? Describe different categories / types of Software. (8)

Q.No.6 What is meant by Encoding Scheme? Explain different types of Encoding Schemes (8)

Q.No.7 Explain four services of E - Commerce. (8)

Q.No.8 What is ROM? Discuss its different types in detail. (8)

Q.No.9 What is meant by an Event ? Explain different types of Mouse and Keyboard Events. (8)

Note : It is compulsory to answer any (6 - 6) parts each from Q.No.2 , Q.No.3 and Q.No.4 while attempt any (03) Questions from Part II. Write same Question Number and its Part Number as given in the Question Paper.

BWP-22

Make Diagram where necessary.	Part - I	18×2 = 36

Q.No.2 (i) How would you define Flatbed Plotter ?

(ii) What do you mean by QWERTY ?

(iii) What is the use of Input Devices ?

(iv) Why Interviews are conducted in SDLC ?

(v) How would you compare Dialup and ISDN Lines ?

(vi) Describe the function of Session Layer.

(vii) Why Star Topology is the best LAN Topology ?

(viii) Distinguish between Cut and Copy Command.

(ix) Define Header and Footer in MS - Word.

Q.No.3 (i) What is Bandwidth ?

(ii) How does FDM works ?

(iii) Define Wireless Modem.

(iv) Describe the purpose of Control Unit (CU).

(v) What is PROM ?

(vi) Elaborate the concept of CPU Registers .

(vii) Differentiate between CX and DX Registers.

(viii) Define Labels in Spreadsheet.

(ix) Differentiate between Active and Passive Cell.

Q.No.4 (i) What is Video Conferencing ?

(ii) Define the term " Online Banking ".

(iii) How does Computer is useful in Medical Field ?

(iv) What is meant by Computer Virus ?

(v) What is Biometrics ?

(vi) Describe the function of Desktop.

(vii) What is Clipboard ?

(viii) Differentiate between Uploading and Downloading.

(ix) What is Web Hosting ?

Part - II	3 x 8 = 24

Q.No.5 What is Non - Impact Printer ? Explain Dot Matrix and Daisy Wheel Printer.   2 + 3 + 3 = (8)

Q.No.6 Why LAN's Protocols are necessary ? Explain Token Ring and TCP / IP in detail.   2 + 3 + 3 = (8)

Q.No.7 Define Guided Media. Briefly describe any two Guided Media.   2 + 3 + 3 = (8)

Q.No.8 Define Operating System. Write any (06) functions of Operating System in detail.   2 + 6 = (8)

Q.No.9 Write different threats to Data Security. Provide any three solutions for these threats.   (8)

Note : Four possible choices A , B , C , D to each question are given. Which choice is correct , fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.No. 1

(1) An Input Device which is used for playing Computer Games

(A) Light Pen (B) Mouse (C) Joystick (D) Scanner

(2) Which of the following is the first phase of SDLC :

(A) Coding (B) Design (C) Analysis (D) Preliminary Investigation

(3) Which layer of OSI Model does Data Compression :

(A) Network (B) Presentation (C) Data Link (D) Physical

(4) Which of the following Network Topology uses Terminators :

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

(5) The process of converting Digital Signals into Analog Signals is called :

(A) Demodulation (B) Modulation (C) Conversion (D) Merging

(6) How many Characters ASCII 8 - bit code can represent :

(A) 128 (B) 256 (C) 512 (D) 300

(7) The process of producing multiple copies of a document is called :

(A) Reprographics (B) Word Processing (C) Spreadsheet (D) Image Processing

(8) Data and Programs not currently being used by computer are stored in :

(A) Secondary Storage (B) Cache (C) Primary Memory (D) Register

(9) Which of the following is not considered to be a peripheral device :

(A) Disk Drive (B) Keyboard (C) Monitor (D) CPU

(10) The Program that contains instructions to operate a device is called :

(A) Device Driver (B) Device Linker (C) Device Operator (D) Debugger

(11) A Virus which activates on certain Date and Time is called :

(A) Logic Bomb (B) Trojan Horse (C) Redlof (D) Boot Sector

(12) The ability of operating system to run multiple programs at the same time is called :

(A) Multi Processing (B) Multi Tasking (C) Multi Paging (D) Segmentation

(13) Which function key is used for checking Spelling and Grammer in MS - Word :

(A) F1 (B) F2 (C) F7 (D) F10

(14) Which of the following is a Spreadsheet Software :

(A) MS - Word (B) MS - Excell (C) Power Point (D) MS - Access

(15) Which Software is used to search and view Web Pages :

(A) HTML (B) Web Server (C) Web Browser (D) Windows Explorer

Note : Four possible choices A , B , C , D to each question are given. Which choice is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.No. 1

(1) Which of the following is the largest unit of Data :

(A) Bit   (B) Byte   (C) Terabyte   (D) Kilobyte

(2) The Layer that is in between of Session and Application Layer is :

(A) Network Layer   (B) DLL   (C) Transport Layer   (D) Presentation Layer

(3) What type of Network is the Internet : (A) LAN   (B) WAN   (C) MAN   (D) PAN

(4) What comes after the Design Phase in SDLC :

(A) Coding   (B) Testing   (C) Analysis   (D) Implementation

(5) Digital Signal represents a sequence of ---------- values :

(A) Discrete   (B) Continuous   (C) Unique   (D) Bytes

(6) An important characteristic of RAM is that it is :

(A) Read Only   (B) Write Only   (C) Volatile   (D) Non Volatile

(7) A ---------- is an automatic programmable machine :

(A) CAM   (B) ROBOT   (C) CAD   (D) CBT

(8) Which of the following is the Insulation on a Fiber Optic Cable :

(A) Sheathing   (B) Braiding   (C) Housing   (D) Cladding

(9) CU stands for : (A) Cache Unit   (B) Control Unit   (C) Calculating Unit   (D) Class Unit

(10) The letters " NT " in Windows NT stands for :

(A) Not Tested   (B) New Technology   (C) Network Terminal   (D) Network Technology

(11) Every Webpage has unique address on the World Wide Web known as :

(A) URL   (B) HTML   (C) HTTP   (D) Hyperlink

(12) A Virus that deletes all the Microsoft Office Files from the disk is called :

(A) Chernobal Virus   (B) Worm   (C) Vaccine   (D) Bomb

(13) The tool used to find a similar or alternative word in a document is called :
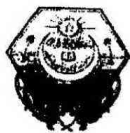
(A) Finder   (B) Dictionary   (C) Style   (D) Thesaurus

(14) The intersection of a row and a column is called :

(A) Intersection   (B) Field   (C) Cell   (D) Address

(15) Which of the following is a type of User Interface :

(A) Design Interface   (B) System Interface   (C) Command Line   (D) Chart Interface

Note : It is compulsory to answer any (6 - 6) parts each from Q.No.2 , Q.No.3 and Q.No.4 while attempt any (03) Questions from Part II. Write same Question Number and its Part Number as given in the Question Paper.

BwP-21

Make Diagram where necessary.	Part - I	18x2 = 36

Q.No.2 (i) Define System Software with example.

(ii) How Interviews are different from Questionnaires ?

(iii) What is a word in Computer Memory ?

(iv) Why maintenance of a Computer System is necessary ?

(v) What is the use of Terminal Emulation Software ?

(vi) How Token Passing Scheme works in a Network ?

(vii) What is the function of Session Layer in OSI Model ?

(viii) Represent Analog Signal with the help of a Diagram .

(ix) What is a Digital Signal ?

Q.No.3 (i) Why is the use of Computer Technology so important ?

(ii) Define Desktop Publishing.

(iii) Write a note on E - Commerce.

(iv) Define Memory Address.

(v) What is ROM ?

(vi) What is DMA ?

(vii) Differentiate between Linker and Loader.

(viii) Write name of four different types of Viruses.

(ix) What is Antivirus Software ?

Q.No.4 (i) What is the purpose of Control Panel ?

(ii) Enlist any four features of Windows Operating System.

(iii) What is Clipboard ?

(iv) Distinguish between Cut and Copy Commands.

(v) Describe the basic concept of Margins in MS - Word.

(vi) Define Word Processor.

(vii) Differentiate between Work Book and Work Sheet.

(viii) How would you create formula in Excel Sheet ?

(ix) What do you know about Relative Referencing ?

Part - II

Q.No.5 Describe the following Network Components :   (8)

(i) NIC (ii) Router (iii) Gateway (iv) Bridge

Q.No.6 Define Data Communication with Diagram. Explain its components.   (8)

Q.No.7 Define Language Translator. Explain its three types.   (8)

Q.No.8 Explain four causes of Computer Virus.   (8)

Q.No.9 What is Network Addressing Scheme ? Explain its two types.   (8)

Note : Four possible choices A , B , C , D to each question are given. Which choice is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.No.1

(1) A collection of raw facts and figure is called :
(A) Data (B) Information (C) Processing (D) Procedure

(2) Caps Lock is a :
(A) Toggle Key (B) Window Key (C) Modifier Key (D) Cursor Control Key

(3) The Physical Layout of a net-work is known as :
(A) Topology (B) Session (C) Link (D) Style

(4) A computer network in which all computers have equal status and no one have control over others :
(A) Peer to Peer (B) Client Server (C) Dedicated (D) Client to Client

(5) Frequency is measured in : (A) Seconds (B) BPS (C) Hertz (D) Amps

(6) The process of converting a digital signal to an analog signal is called :
(A) Modulation (B) Demodulation (C) Conversion (D) Merging

(7) Which of the following is not an example of E - Commerce :
(A) Electronic Banking (B) Electronic Shopping (C) Online Chatting (D) Online Education

(8) RAM holds the data / instruction :
(A) Temporarily (B) Permanently (C) Partially (D) Casually

(9) Which Register holds the address of next instruction to be fetched for execution :
(A) MAR (B) MBR (C) IR (D) PC

(10) A Virus that replicates itself is called :
(A) Bug (B) Worm (C) Vaccine (D) Bomb

(11) Which of the following is not cause of Virus :
(A) E - mail (B) Networks (C) Pirated Software (D) Logic Bomb

(12) An Operating System is a :
(A) System Utility (B) Application Software (C) System Software (D) Software Package

(13) Page Setup Option is available in which menu :
(A) Format (B) Insert (C) Edit (D) File

(14) Which of the given is a correct Cell Address : (A) AA (B) 25 (C) 3 B (D) C 5

(15) How many types of Addressing Scheme are used on the Internet :
(A) 3 (B) 2 (C) 5 (D) 8

Note : It is compulsory to answer (6 - 6) parts each from question Q.No.2 , 3 and 4 while attempt any (03) questions from Part II. Write same Question Number and its Part Number as given in the Question Paper.

Make Diagram where necessary.   Part - I   18x2 = 36

Q.No.2 (i) Define System Software.

(ii) Give two examples of Application Software.

(iii) State the relationship between Pixel and Resolution of Monitor.

(iv) Write down different components of an Information System.

(v) Define Telecommunication.

(vi) State the use of Repeater.

(vii) Distinguish between Frame and Packet.

(viii) Define IP Addressing.

(ix) Define DNS Addressing.

Q.No.3 (i) What is ASCII Code?

(ii) Differentiate between Sender and Receiver elements of Data Communication System.

(iii) How is Data Transmitted in Synchronous Transmission?

(iv) What do you know about E - Banking?

(v) How can computer helps in marketing?

(vi) What is Word Processing?

(vii) Write short note on formatting in MS - Word.

(viii) Differentiate between Worksheet and Workbook.

(ix) How Formula is used in MS - Excel ?

Q.No.4 (i) Why ROM is used in Computer System?

(ii) List any four functions of Operating System.

(iii) How does an instruction differ from operation?

(iv) Differentiate between Volatile and Non - Volatile Memory.

(v) State the purpose of Control Bus.

(vi) How can Virus damage Computer?

(vii) Enlist any four different types of Viruses.

(viii) Why does Computer need an Operating System?

(ix) What is Desktop ?

Part - II

Q.No.5 Differentiate between Software and Hardware. Describe the different categories (8) of Software.

Q.No.6 What is Network Standard ? Explain its types. (8)

Q.No.7 Define Data Communication. Explain the components of Data Communication System. (8)

Q.No.8 Define Language Translator. Discuss its types. (8)

Q.No.9 Write a detailed note on Redlof , Trojan Horse , Logic Bomb and Boot Sector Viruses. (8)

Note : Four possible choices A , B , C , D to each question are given. Which choice is correct , fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q.No. 1

(1) A collection of related Web Pages is called :

(A) Internet   (B) Web Server   (C) Hyper Links   (D) Website

(2) In Spread - sheet , by default rows are labeled by :

(A) Letters   (B) Special Symbols   (C) Numbers   (D) Underscore Sign

(3) Which of the following can be used to launch the Word Art :

(A) Status Bar   (B) Ruler   (C) Standard Toolbar   (D) Drawing Toolbar

(4) Which of the following contains the administrative tools in operating system :

(A) Control Panel   (B) Internet Explorer   (C) Recycle Bin   (D) My Document Folder

(5) A person who gains illegal access to a computer system is called :

(A) Robot   (B) Pirated Software   (C) Computer Program   (D) Hacker

(6) Which of the following is not an Antivirus Program :

(A) McAfee   (B) Nod 32   (C) Redlof   (D) Dr. Solomon

(7) The term that refers to all input , output and secondary storage devices is called :

(A) Network Point   (B) Peripheral   (C) Internal Memory   (D) Port

(8) Temporary Storage Area within CPU is called :

(A) ROM   (B) RAM   (C) Register   (D) Hard Disk

(9) Which one is an Automatic Programmable Machine :

(A) Mouse   (B) Keyboard   (C) CD - Drive   (D) Robot

(10) A communication signal in the form of a Continuous Wave is called :

(A) Digital Signal   (B) Analog Signal

(C) Binary Signal   (D) Discontinuous Electrical Signal

(11) Physical Path that connects the source and receiver is known as :

(A) Communication Channel   (B) Decoder   (C) Encoder   (D) NIC Card

(12) One or more computers connected to a hub is called :

(A) Ring Network   (B) Star Network   (C) Bus Network   (D) Mesh Network

(13) A Device that connect multiple networks using similar or different protocol is a :

(A) Router   (B) Bridge   (C) Gateway   (D) Repeater

(14) Testing All Modules of Programs together is called :

(A) Volume Testing   (B) Program Testing   (C) Composite Testing   (D) System Testing

(15) Which of the following is an example of System Software :

(A) Spread - sheet   (B) Text Editor   (C) Operating System   (D) MS - Word

Note : It is compulsory to answer (6 - 6) parts each from question Q.No.2 , 3 and 4 while attempt any (03) questions from Part II. Write same question number and its part number as given in the question paper.

Make Diagram where necessary.	Part - I	BWP-11-18	18x2 = 36

Q.No.2 (i) Write any four applications of Information Technology.

(ii) Identify two alternatives to a Mouse.

(iii) How does a Mouse Work?

(iv) What is E - Mail?

(v) Write the function of Transport Layer.

(vi) Differentiate between Intranet and Extranet.

(vii) Define Demodulation. Why is it necessary?

(viii) What is External Modem?

(ix) Compare between Asynchronous and Synchronous Transmission.

Q.No.3 (i) Write any four benefits of Computer Aided Manufacturing.

(ii) What are the uses of Computer in Industry?

(iii) List any two computerized Systems used in Office Automation.

(iv) What is Interrupts?

(v) Write two disadvantages of Direct Memory Access.

(vi) List five components in Computer Architecture.

(vii) Define the use of Serial Port.

(viii) Why RAM is called Random Access Memory?

(ix) What is Primary Partition?

Q.No.4 (i) What is the function of Recycle Bin Object in Window?

(ii) What is the advantage of Multiprocessing?

(iii) Define Desktop.

(iv) Distinguish between Cut and Copy Command.

(v) Define Header and Footer in MS - Word.

(vi) What is Spread - sheet Program?

(vii) Name two states of a Cell in Worksheet.

(viii) Write two uses of the Internet.

(ix) What is an E - mail Address?

Part - II

Q.No.5 What are Diplay Screens? Explain any two types of Display Screens. (8)

Q.No.6 What is Bus Topology? Explain its working with diagram. Discuss its two advantages and two disadvantages. (8)

Q.No.7 Define Mode of Communication. Elaborate its types. Also draw diagrams. (8)

Q.No.8 Why Language Translators are used ? Discuss different types of Language Translators (8)

Q.No.9 Discuss any four causes of Virus in detail. (8)