

☆☆☆	Roll No _____
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HSSC-(P-I)-A/2024
(For All Sessions)



Paper Code	6	8	3	5
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Computer Science (Objective)

Time: 20 Minutes

Marks : 15

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided.

1.1 The register that is used for arithmetic and data operation is:

- (A) AX (B) BX (C) CX (D) DX

2. The program that contains instructions to operate a device is called:

- (A) Device driver (B) Device operator (C) Device linking (D) Device system

3. Which virus executes when starting the computer?

- (A) Logic bomb (B) Boot sector (C) Redlof (D) Trojan horse

4. Windows operating system was developed by:

- (A) Sun system (B) HP (C) Microsoft (D) IBM

5. Which of the following is a Word Processor?

- (A) MS-Excel (B) MS-Power Point (C) MS-Outlook (D) MS-Word

6. If the custom format is #, # # # then 1500 will be displayed as:

- (A) 15,00 (B) 1,500 (C) 15,000 (D) 150,0

7. Which of the following is a correct formula?

- (A) = A1 and A4 (B) +A1 and A4 (C) = A1 + A4 (D) A1 + A4

8. The length of IP address is:

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

9. Smallest unit of memory is:

- (A) Byte (B) Bit (C) Character (D) Word

10. Which technology is used to read data on cheques?

- (A) OMR (B) OCR (C) CAT (D) MICR

11. Total number of layers in OSI model is:

- (A) 6 (B) 7 (C) 8 (D) 9

12. A connection for similar network uses:

- (A) NIC (B) Bridge (C) Gateway (D) Router

13. Collection of 8 bits is called:

- (A) Bit (B) Byte (C) KB (D) Nibble

14. How many characters ASCII 7 bit code represents?

- (A) 128 (B) 256 (C) 512 (D) 1024

15. CBT software is used in:

- (A) Business (B) Industry (C) Education (D) E-banking

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Roll No _____

HSSC-(P-I)-A/2024
(For All Sessions)

Marks : 60

Time: 2:10 hours

Computer Science (Subjective)

SECTION-I

2. Write short answers of any six parts from the following:

(6x2=12)

- i. Convert 230 MB into bits.
- ii. What is physical design in SDLC?
- iii. Write down two advantages of collaborative computing.
- iv. How frequency of analog signals is calculated / measured?
- v. How data is transmitted in bus topology?
- vi. You are a field worker & you have to use the internet on the go; which modem will you use and why?
- vii. Why gateway is used?
- viii. What is TCP / IP?
- ix. How a star network is constructed?

3. Write short answers of any six parts from the following:

(6x2=12)

- i. Write an important responsibility of I/O unit.
- ii. What is the purpose of MAR(Memory Address Register)?
- iii. State the purpose of data transfer instructions.
- iv. Enlist two parts of instruction format.
- v. How does virus spread through email?
- vi. What do you mean by data protection?
- vii. Which type of damage is caused by Chernobal virus?
- viii. What is domain name system?
- ix. Write any two limitations on email.

4. Write short answers of any six parts from the following:

(6x2=12)

- i. What do you mean by word wrap?
- ii. What is WYSIWYG?
- iii. Differentiate between line spacing and paragraph spacing.
- iv. What three options are included in page formatting?
- v. Write the formula for calculating the average of cells A5 , B5 and C5.
- vi. What is the difference between relative and absolute cell reference?
- vii. Write a function that returns the square root of cell B5.
- viii. What are function arguments?
- ix. Write the formula to subtract the value of Cell "B5" of worksheet "sheet 5" with the cell "C7" of current worksheet.

SECTION-II

Note: Answers any three questions from the following:

5. What is impact printer? Discuss different types of impact printer.
6. What is data transmission mode? Explain its types with example.
7. Briefly explain the use of computer in education field.
8. What is ROM? Explain its three types.
9. Write any four features of Windows 2000 operating system.

(8x3=24)

(2+2+2+2=8)

(4+4=8)

(8)

(2+2+2+2=8)

(2+2+2+2=8)

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Roll No _____ to be filled in by the candidate

HSSC-(P-1)-A/2023

Paper Code

6

8

3

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Computer Science (Objective)

(For All Sessions)

Time: 20 Minutes

Marks : 15

Note: Write Answers to the Questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with Marker or Pen ink on the answer sheet provided.

1.1. Which technology is used to read data on cheques:

- (A) OMR (B) MICR (C) OCR (D) CAT

2. CPU is an example of:

- (A) Software (B) A program (C) Hardware (D) An output unit

3. Cache memory works between:

- (A) RAM and ROM (B) MMU and Hard disk (C) CPU and RAM (D) CPU and Hard disk

4. The order of stack is:

- (A) FIFO (B) GIGO (C) FIGO (D) LIFO

5. A virus that replicates itself is called:

- (A) Worm (B) Bug (C) Bomb (D) Vaccine

6. The maximum number of primary partitions that can be created on a disk are:

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

7. Clipboard stores _____

- (A) Copied text (B) Deleted text (C) Entered text (D) Repeated text

8. A built-in formula is known as:

- (A) Update (B) Procedure (C) Calculate (D) Function

9. The format of an email address is:

- (A) User name # DNS Address (B) User name @ DNS Address (C) User name \$ DNS Address (D) User name ! DNS Address

10. The name for screen clarity

- (A) Discrete (B) Pixel (C) Resolution (D) LCD

11. 1GB of memory in bytes is equal to:

- (A) 2^{30} (B) 2^{20} (C) 2^{40} (D) 2^{10}

12. The protocol used over the Internet is:

- (A) SNA (B) TCP/IP (C) Token-Ring (D) Ethernet

13. Which layer of OSI model does data compression?

- (A) Application layer (B) Physical layer (C) Session layer (D) Presentation layer

14. The physical path over which a message travels is:

- (A) Protocol (B) Signal (C) Node (D) Medium

15. Concurrent flow of bits is done in _____ transmission.

- (A) Parallel (B) Serial (C) Asynchronous (D) Synchronous

Rawalpindi Board-2023

Roll No _____ to be filled in by the candidate

HSSC-(P-I)-A/2023

Marks : 60

(For All Sessions)

Time: 2:10 hours

Computer Science (Subjective)

SECTION-I



2. Write short answers of any six parts from the following:
- Define the term digital convergence.
 - How did Information Technology make our world as global village?
 - Write two types of plotters.
 - Convert 32 bytes into bits.
 - Give any two uses of computer in business.
 - What is meant by computer simulation?
 - Describe video-conferencing.
 - Differentiate between function and formula.
 - Write the function to calculate the minimum value from A_1 to A_5 cells.

(6x2=12)

3. Write short answers of any six parts from the following:

(6x2=12)

- What is workgroup computing?
- Compare intranet and extranet.
- Write any two functions of network layer.
- How does FDM work?
- What do you know about wireless modem?
- Define digital signal.
- Describe domain name system.
- List two advantages of email.
- Why newsgroups are created on the internet?

4. Write short answers of any six parts from the following:

(6x2=12)

- How does cache memory work?
- Why does DRAM use more power?
- What is password?
- Write two ways in which data security is violated?
- Define computer virus.
- What is the purpose of recycle bin?
- Define primary partition.
- What is meant by editing a document?
- Define paragraph formatting.

SECTION-II

- Note: Answers any three questions from the following:

(8x3=24)

- What is video display adapter? Discuss its different types.
- What is STAR TOPOLOGY? Explain its working with diagram. Also write its advantages and disadvantages.
- What is data transmission mode? Explain its types with example.
- Describe computer architecture. Discuss different components of Computer Architecture.
- Describe CPU register. Discuss General-purpose registers.

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Rawalpindi Board-2022



Inter- (Part-I)-A-2022

Roll No. _____ To be filled in by the candidate

(For all sessions)

Paper Code	6	8	3	5
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Computer Science (Objective Type)

Time: 20 Minutes

Marks: 15

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

1.1 Internet surfing is an example of:

- (A) Simplex Transmission (B) Half-duplex transmission
(C) Full-duplex transmission (D) Duplex transmission

2. The process of producing multiple copies of a document is called:

- (A) Word processing (B) Image processing (C) Desktop publishing (D) Reprographics

3. Memory consists of:

- (A) Set of Wires (B) Set of Circuits (C) Binary Cells (D) Ports

4. Which register has special role in division and multiplication?

- (A) AX (B) BX (C) CX (D) DX

5. CPU provides enabling signal through:

- (A) Data Bus (B) Control Bus (C) Address Bus (D) Serial Bus

6. McAfee is an example of:

- (A) Antivirus (B) Virus (C) Worm (D) Hacker

7. Add New Hardware option is available in:

- (A) Main menu (B) Status bar (C) Control Panel (D) Taskbar

8. Clipboard stores:

- (A) Entered text (B) Deleted text (C) Repeated text (D) Copied text

9. Which of the following is a correct cell address:

- (A) BB (B) B5 (C) 3B (D) 33

10. All of the following are top-level domain Except:

- (A) .edu (B) .org (C) .bus (D) .gov

11. Which of the following is used for personal identification?

- (A) Magnetic stripe card (B) MICR (C) OMR (D) OCR

12. Testing all program components together is called:

- (A) Volume testing (B) Group testing (C) System testing (D) Composite testing

13. What layer of OSI model does data compression?

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

14. Terminators are used in _____ topology.

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

15. The height of wave within a given period of time is known as:

- (A) Frequency (B) Phase
(C) Amplitude (D) Pulse

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Rawalpindi Board-2022

Inter -(Part-I)-A-2022

Roll No: _____ To be filled in by the candidate

(For all sessions)

Computer Science (Essay Type)

Time: 2:10 Hours

Section-I



Marks: 60

2 x 6 =12

2. Write short answers of any six parts from the following.

- i. Why a trackball should be used instead of mouse?
- ii. What is video input?
- iii. How does barcode reader work?
- iv. Define pixel.
- v. What is groupware?
- vi. Differentiate between Intranet and Extranet.
- vii. Write any two functions of Network layer.
- viii. Define Word processor.
- ix. Differentiate between Undo and Redo commands.

3. Write short answers of any six parts from the following.

2 x 6 =12

- i. How does data flow in simplex mode?
- ii. How data are represented in computer?
- iii. How would you define modulation?
- iv. Why does DRAM uses more power?
- v. What is the purpose of CPU registers?
- vi. Define data bus.
- vii. How would you define an interrupt?
- viii. How would you compare active and passive cells?
- ix. How would you enter function in MS-EXCEL?

4. Write short answers of any six parts from the following.

2 x 6 =12

- i. Describe Video-Conferencing.
- ii. Define Documents Management System.
- iii. How Computer can be useful in marketing?
- iv. What is a Chernobal Virus?
- v. Why it is necessary to update antivirus programs periodically?
- vi. Describe Command Line Operating System with example.
- vii. Write the use of Start Button.
- viii. Differentiate between Webpage and Website.
- ix. Define IP Addressing.

Section -II

Note: Answer any three questions from the following.

8x3=24

5. What is the concept of Software? Describe the classification of software. 2+3+3 08
6. Define Computer Networks and briefly describe the different components of Computer Network. 08
7. Define encoding scheme. Discuss any three coding schemes. 2+2+2+2 08
8. Write down any Four main components of Computer System? 08
9. What do you mean by data security? Discuss any six ways of security violation. 2+1+1+1+1+1+1 08

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Rawalpindi Board-2021



Inter- (Part-I)-A-2021

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(For all sessions)

Paper Code	6	8	3	3
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Computer Science (Objective Type)

Time: 20 Minutes

Marks: 15

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.



- Which of the following features of MS-Word is used to duplicate a section of text?
(A) Replace (B) Copy (C) Cut (D) Paste
- Which of the following is an absolute address of a cell in MS-Excel?
(A) B1\$ (B) B\$1\$ (C) \$B\$1 (D) \$B1\$
- The length of an IP address is composed of:-
(A) 8 bits (B) 16 bits (C) 24 bits (D) 32 bits
- Which of the following is an example of System Software?
(A) MS-Word (B) MS-Excel (C) Operating System (D) Text Editor
- Which of the following is the largest data unit?
(A) Gigabyte (B) Megabyte (C) Kilobyte (D) Terabyte
- Which layer of OSI Model does data compression?
(A) Presentation layer (B) Network layer (C) Session layer (D) Transport layer
- One or more Computers connected to a hub computer is a:
(A) Ring Network (B) Star Network (C) Mesh Network (D) Information Utility
- Data is transmitted block by block in the:
(A) Serial transmission (B) Parallel transmission
(C) Asynchronous transmission (D) Synchronous transmission
- The electromagnetic or light waves that represent data are called:
(A) Waves (B) Pulse (C) Signals (D) Information
- Product, promotion, place and price relates to:
(A) Marketing (B) Banks (C) Stock Exchange (D) Departmental store
- How many types of language processors are there?
(A) 2 (B) 4 (C) 5 (D) 3
- CPU's communication with peripheral devices are handled by:
(A) Main Memory (B) Input output unit (C) Read only memory (D) Control Unit
- Making illegal copies of software is called:
(A) Software legacy (B) Software threat (C) Software piracy (D) Software privacy
- A feature of operating system that automatically detect new hardware device is:
(A) Multitasking (B) Windows explorer (C) Networking (D) Plug and play
- A storage area maintain by windows on hard disk for storing deleted items is:
(A) Recycle Bin (B) Internet Explorer (C) Desktop (D) My Documents

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Roll No. _____ To be filled in by the candidate

(For all sessions)

Computer Science (Essay Type)

Time: 2:10 Hours

Section-I



Marks: 60

2 x 6 =12

2. Write short answers of any six parts from the following.

- i. What is computer hardware?
- ii. Define package software.
- iii. Differentiate between input and output devices.
- iv. How does pilot conversion work?
- v. What is TCP/IP?
- vi. Name two network standards.
- vii. Write the purpose of application layer.
- viii. Define unguided media.
- ix. What is the role of cladding in fiber optic cable?

3. Write short answers of any six parts from the following.

2 x 6 =12

- i. How can computer be used in departmental stores?
- ii. What is the purpose of program counter register?
- iii. What is the purpose of stack pointer register?
- iv. Write the function of arithmetic and logic unit(ALU)?
- v. What is interrupt?How is it generated?
- vi. Define security.
- vii. List any three computerized systems used in office automation.
- viii. How is the use of computer beneficial in stock exchange?
- ix. How does boot sector virus work?

4. Write short answers of any six parts from the following.

2 x 6 =12

- i. What is scripting in command line interface?
- ii. Define Graphical user interface.
- iii. Explain Desktop of Windows OS.
- iv. Define Search and Replace option of MS-Word.
- v. What is font specification?
- vi. Explain WYSIWYG.
- vii. What are functions in Excel?
- viii. Write function that sums the values from B3 to B10.
- ix. What is meant by cell in MS-Excel?

Section -II

Note: Answer any three questions from the following.

8x3=24

5. Write the detail of the following Network Components.

08

(i) Network Interface Card(NIC) (ii) Gateway (iii) Router (iv) Ethernet

6. Explain any four data types with examples.

08

7. Describe Bus Interconnection.Discuss different categories of System Bus.

08

8. Explain four causes of computer virus.

08

9. Explain E-mail address and News groups in detail.

08

Rawalpindi Board-2019



Date: (Part-I-A-2019)

Roll No. *To be filled in by the candidate*

(For all sessions)

Paper Code	6	8	3	3
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Computer Science (Objective Type)

Time: 20 Minutes



Marks: 15

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided

- 1.1 Short cut key for paste is
(A) Ctrl+C (B) Ctrl+V (C) Ctrl+A (D) Ctrl+P
2. A formula in MS-Excel is always begin with:
(A) > (B) = (C) == (D) <
3. Which of the following is an Internet Protocol:
(A) Ethernet (B) ARC net (C) TC/IP (D) MAC
4. Which operation is not performed by computer?
(A) Inputting (B) Processing (C) Controlling (D) Understanding
5. A Kilobyte is exactly equal to.
(A) 1 bytes (B) 100 bytes (C) 256 bytes (D) 1024 bytes
6. A collection of computers connected together is called
(A) Processing (B) Network (C) Chatting (D) Centralized system
7. Which of the following is not a networking topology?
(A) Bus (B) Band (C) Star (D) Ring
8. Select un-guided media:
(A) Twisted pair cable (B) Co-axial cable (C) Satellite (D) Fiber optic
9. Unicode is a:
(A) 16-bit Code (B) 32-bit Code (C) 64-bit Code (D) 132-bit Code
10. Typically, an ATM can be used to:
(A) Keep records (B) Make budgets (C) Watch movies (D) Withdraw cash
11. The order of stack is:
(A) FIFO (B) LIFO (C) GIGO (D) FIGO
12. Brain of computer that executes a set of instructions is called:
(A) Bus (B) CPU (C) Monitor (D) Register
13. The secret word or number used for protection is called
(A) Biometric (B) Backup (C) Password (D) Private word
14. A virus that replicates itself is called:
(A) Bug (B) Worm (C) Bomb (D) Vaccine
15. Pressing and releasing the left mouse button quickly is called:
(A) Clicking (B) Dropping (C) Painting (D) Dragging

837-011-A-☆☆

Rawalpindi Board-2019

Inter (Part-I)-A 2019

Roll No. _____ To be filled in by the candidate

(For all Sessions)

Computer Science (Essay Type)

Time: 2:10 Hours



Marks: 60

Section -I

2. Write short answers of any six parts from the following.

2 x 6 =12

- i. Differentiate between Soft copy and Hard copy.
- ii. Why does application software need operation system?
- iii. Enlist any four phases of SDLC.
- iv. What is network protocol?
- v. State the purpose of telecommunication.
- vi. How is data transmitted in asynchronous transmission?
- vii. Differentiate between intranet and extranet.
- viii. What is broadband?
- ix. Define demodulation. Why is it necessary?

3. Write short answers of any six parts from the following.

2 x 6 =12

- i. What is online Education?
- ii. How computer can be useful in weather forecasting?
- iii. Define Desktop Publishing.
- iv. Write down the purpose of A L U
- v. List any two activities performed by control unit
- vi. Why RAM is called Volatile Memory?
- vii. What is the purpose of Fetch instruction?
- viii. What types of devices are connected using serial port?
- ix. Who is Hacker?

4. Write short answers of any six parts from the following.

2 x 6 =12

- i. What is Plug & Play feature of windows?
- ii. Why a computer system needs an operating system?
- iii. What is Chart?
- iv. Define page orientation in Microsoft Word
- v. Differentiate between Undo and Redo commands
- vi. Describe alignment in paragraph
- vii. Enlist four functions used in MS Excel
- viii. Define Web Publishing
- ix. What is e-mail address? Give an example.

Section -II

Note: Answer any three questions from the following.

8x3=24

5. Define Non-Impact Printers. Also explain Laser Printer and Thermal Printer in detail.

08

6. What is Network (Computer Network)? Write in detail types of Network Models (Client server, peer to peer and Hybrid).

08

7. What is Unguided Media? Explain Microwave and Communication Satellite

08

8. Define language translator. Explain its different types.

08

9. Briefly discuss any four threats or violations to data security. What are the solution to these threats or violations.

08

838-011-A----



Roll No. _____ *To be filled in by the candidate*

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Sessions;2015-2017,2016-2018&2017-2019

Computer Science (Objective Type)

Time: 20 Minutes



Marks: 15

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

- 1.1. Which is a type of RAM?
 (A) SRAM (B) CRAM (C) ERAM (D) FRAM
2. Which one is the fastest memory?
 (A) RAM (B) ROM (C) Register (D) Cache
3. The secret words or number used for computer security is called:
 (A) Biometric data (B) Passwords (C) Private words (D) Safe words
4. Which of the following is an antivirus?
 (A) Redlof (B) Logic bomb (C) NOD32 (D) Trojan Horse
5. The operating system based on NT technology is:
 (A) Windows 95 (B) Windows 97 (C) Windows 98 (D) Windows 2000
6. Common font size used in business document is:
 (A) 10-points (B) 12-points (C) 14-points (D) 16-points
7. In MS-Excel, formula begins with:
 (A) > (B) < (C) = (D) ==
8. How many types of addressing scheme are there?
 (A) 2 (B) 3 (C) 4 (D) 5
9. Data processing is also known as:
 (A) Knowledge (B) Computing (C) Procedure (D) Merging
10. XGA resolution is:
 (A) 640x480 (B) 640x580 (C) 640x860 (D) 1024x768
11. DSL stands for:
 (A) Direct Service Lease (B) Domain Server Link
 (C) Distance Service Line (D) Digital Subscriber Line
12. Which of the following is not a type of Network?
 (A) WAN (B) NAN (C) LAN (D) MAN
13. Television broadcast is an example of:
 (A) Half-duplex transmission (B) Full-duplex transmission
 (C) Simplex (D) Reverse duplex transmission
14. Which of the following coding scheme used by IBM?
 (A) BCD (B) EBCDIC (C) ASCII (D) Unicode
15. The software which is used to control all parts of manufacturing process is called:
 (A) CAD (B) MICR (C) CAM (D) ATM

Rawalpindi Board-2018

Inter -(Part-I)-A-2018

Roll No. _____ To be filled in by the candidate

Sessions;2015-2017,2016-2018&2017-2019

Computer Science (Essay Type)

Time: 2:10 Hours



Marks: 60

Section -I

2. Write short answers of any six parts from the following.

2 x 6 =12

- i. What do you know about mouse?
- ii. Explain the concept of pen-based system.
- iii. Why is resolution important for display screen?
- iv. Enlist different components of LAN.
- v. What is client server network model?
- vi. Explain workgroup computing.
- vii. Define Bandwidth.
- viii. What is synchronous data transmission?
- ix. Define data communication mode.

3. Write short answers of any six parts from the following.

2 x 6 =12

- i. Write any two uses of robot in industry.
- ii. How can computing be useful in weather forecasting?
- iii. What is online education?
- iv. What is Interrupt?
- v. Write the purpose of data transfer transaction.
- vi. What is Instruction set?
- vii. Why is backup important?
- viii. Write the use of Memory Buffer Register
- ix. Give one difference between source code and object code.

4. Write short answers of any six parts from the following.

2 x 6 =12

- i. Define Graphical user interface with example.
- ii. Why start button is used in windows?
- iii. Differentiate between Serif and San-Serif fonts?
- iv. What is WYSIWYG?
- v. Explain macro in MS-Word.
- vi. What is the difference between formula and function?
- vii. Define Gridlines in Excel.
- viii. Define Search Engine with example.
- ix. List all addressing schemes used on internet.

Section -II

Note: Answer any three questions from the following.

8x3=24

5. Define computer.Discuss any three primary components of a computer system. 08
6. What is ring topology?Explain its working with diagram.Write its two advantages and two disadvantages. 08
7. What is meant by encoding of data?Explain any three coding schemes to interpret data. 08
8. What is bus?Explain different types of system buses? 08
9. What is virus?Discuss any three causes of virus. 08

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