



Roll No. _____ To be filled in by the candidate

(New Pattern)

Paper Code	6	8	3	3
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Sessions; 2012-2014,2013-2015&2014-2016

Computer Science (Objective Type)

Time: 20 Minutes

Marks: 17

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 of the following is the most devastating loss to a company?
(A) Loss of hardware (B) Loss of data (C) Loss of software (D) Loss of printouts
2. Another name for antivirus is:
(A) Vaccine (B) Worm (C) Trojan Horse (D) DES
3. An operating system is a:
(A) System utility (B) Application software (C) System software (D) Software package
4. Which of the following is used to find information on world wide web?
(A) Web Browser (B) Website (C) Search Engine (D) Web server
5. Softcopy refers to:
(A) Screen output (B) Peripheral devices (C) OCR (D) Printer
6. System requirements are created during:
(A) Analysis (B) Design (C) Preliminary investigation (D) Development
7. A connection for similar networks uses:
(A) bridge (B) Gateway (C) NIC (D) Cable
8. One or more computers connected to a hub is:
(A) Ring network (B) Bus network (C) Star network (D) Mesh network
9. How many characters in ASCII 8-bit code represent?
(A) 128 (B) 256 (C) 500 (D) 364
10. Data communication requires only a:
(A) Sender (B) Receiver (C) Medium (D) All of these
11. CAL stands for:
(A) Computer Aided Learning (B) Computer Assist Learning
(C) Computer added Learning (D) Computer add Learning
12. Most applications of robotics are in which area?
(A) Cooking (B) Manufacturing (C) Teaching (D) Farming
13. Which of the following register acts as counter register?
(A) Ax (B) Bx (C) Dx (D) Cx
14. Which of the following is not the component of CPU?
(A) Primary memory (B) Register (C) Control unit (D) ALU
15. Memory is made up of:
(A) Set of wires (B) Set of circuits (C) Cells (D) BIOS
16. Computer cannot boot if it does not have:
(A) Compiler (B) Linker (C) Interpreter (D) Operating system
17. CPU provides enabling signal through:
(A) Control bus (B) Data bus (C) Address bus (D) Ordinary bus

Session;2012-2014,2013-2015&2014-2016

Computer Science (Essay Type)

Time: 3:10 Hours

Marks: 83

Section -I

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

2 x 8 =16

- | | |
|---|---|
| i. What is video adapter? | ii. List different components of SDLC. |
| iii. Compare system software with application software. | iv. What do you know about workgroup computing? |
| v. Enlist different components of LAN. | vi. Define the term "Internet". |
| vii. What is communication media? | viii. Explain the term "baseband". |
| ix. What is meant by full duplex mode of data transmission? | x. What do you know about copyright act? |
| xi. Define pirated software. | xii. Explain activation of computer virus. |

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

2 x 8 =16

- | | |
|---|--|
| i. What is SRAM? | ii. What is system bus? |
| iii. Define customized software. | iv. What is GUI? |
| v. What is segment register? | vi. Define DMA. |
| vii. Differentiate between ROM and RAM. | viii. Define interpreter. |
| ix. What is the use of window explorer? | x. Differentiate between multitasking and multiprocessing. |
| xi. State the use of page setup dialog box. | xii. Define header and footer in MS word. |

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

2 x 6 =12

- | | |
|--|-------------------------------------|
| i. How computers are used in marketing? | ii. Define desktop publishing. |
| iii. Differentiate between CAD and CAM. | iv. Define term video conferencing. |
| v. What do you mean by CBT? | vi. What is purpose of recycle bin? |
| vii. Define command line operating system. | viii. What is use of web server? |
| .ix What is purpose of search engine? | |

Section -II

Note: Answer any three questions from the following.

8x3=24

- | | |
|---|----|
| 5. What is SDLC?Write a note on its system design phase and implementation phase. | 08 |
| 6. Define network topology.Explain Bus and ring topology. | 08 |
| 7. What is guided media?Discuss different guided media. | 08 |
| 8. Explain the fetch-decode-execute cycle of CPU.Also draw its diagram. | 08 |
| 9. Discuss different security threats to data security.What are solutions of these threats? | 08 |

Section -III (Practical)

5x3=15

Note:Answer any three parts from the following.

- 10.(A). Write the steps needed to open recently used documents.
- B. Write a procedure to insert word ART in MS-word document.
- C. Write a procedure to insert rows and columns in MS-word document.
- D. Write a procedure to calculate the product and sum of four numbers using function in MS-Excel.
- E. Write a procedure in MS-Excel to merge and centre cells in work sheet.



Roll No. _____ To be filled in by the candidate

(OLD PATTERN)

Paper Code	2	8	3	3
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Session;2011-2013

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 of these is an absolute address?
(A) A1 (B) A1\$ (C) \$A1 (D) A\$1\$
2. Collection of related web pages is called:
(A) Folder (B) Website (C) Internet (D) Extranet
3. The four numbers in an IP address are called:
(A) Sub addresses (B) Subsets (C) Octets (D) Octals
4. Softcopy refer to:
(A) Screen output (B) Peripheral devices (C) OCR (D) Software
5. What layer of OSI model does data compression?
(A) Network (B) Presentation (C) Data link (D) Physical
6. Microwave transmission, Coaxial cables, and fiber optics are examples of:
(A) Modems (B) Communication links (C) Gateways (D) Ring network
7. CBT stands for:
(A) Computer based trade (B) Computer basic training
(C) Computer based training (D) Certificate based training
8. Which interface consists of windows, menus, icons and pointers?
(A) Event based (B) graphical (C) interrupt based (D) Document based
9. Stack pointer register is used for:
(A) FIFO (B) LISP (C) Holding Queue (D) LIFO
10. Initial work on the internet was done in which operating system?
(A) UNIX (B) PHOENIX (C) LINUX (D) Bumble bee
11. The program that contains instructions to operate a device is called:
(A) Device code (B) Mach ware (C) Device driver (D) Device ware
12. Which registers are used in mathematical operations?
(A) Generic purpose (B) General purpose (C) Arithmetic (D) Arithmetic and logic
13. A virus that replicates itself is called:
(A) Bug (B) Worm (C) Vaccine (D) Bomb
14. An operating system is:
(A) System utility (B) Custom-built software (C) System software (D) Software package
15. Which of the following keyboard shortcut is used to change the case?
(A) Ctrl+F3 (B) Shift+F3 (C) Alt+F3 (D) Ctrl+Shift+F3

Roll No. _____ To be filled in by the candidate

Inter-(Part-I)-A-2015

(OLD PATTERN)

Session; 2011-2013

Subject Code	2	8	3
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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. Define the term information technology(IT). | ii. What is the usage of MICR and OMR? |
| iii. Write any two advantages of digital camera. | iv. State the working of Laser printer. |
| v. What is workgroup computing? | vi. State the purpose of router. |
| vii. Compare asynchronous and synchronous transmission. | viii. Compare simplex and Half duplex mode. |
| ix. List out different elements of data communication. | |

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

2 x 6 =12

- | | |
|---|---|
| i. How can be a computer useful in weather forecasting? | ii. Describe the use of computer in stock exchange. |
| iii. What are interrupts? | iv. Differentiate between RAM and ROM. |
| v. Define operand code and operand. | vi. Compare compiler and interpreter. |
| vii. Why does machine language program execute faster? | viii. What do you mean by plug and play? |
| ix. Why does a computer need an operating system? | |

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

2 x 6 =12

- | | |
|---|---|
| i. How virus is activated? | ii. Define data security. |
| iii. What is privacy issue? | iv. Define "Word processing". |
| v. Differentiate between Header and footer. | vi. What is spreadsheet software? |
| vii. Write any two advantages of MS-Excel. | viii. What is the purpose of "IP addressing"? |
| ix. What is URL? | |

Section -II

Note: Answer any three questions from the following.

8x3=24

- | | |
|---|----|
| 5. What is software? Explain different types of software. | 08 |
| 6. Define computer network. Discuss different network models. | 08 |
| 7. What is transmission mode? Explain its types. | 08 |
| 8. What is language processor/translator? Describe its different types. | 08 |
| 9. What is virus? Discuss its different types. | 08 |

894-011-A---



Roll No. _____ To be filled in by the candidate

Paper Code 2 8 3 1

Sessions; 2015-2017

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 of the following is not an input device?
(A) Keyboard (B) Speaker (C) Mouse (D) Microphone
2. Testing all programs together is called:
(A) Volume testing (B) Program testing (C) System testing (D) Composite testing
3. The set of rules to exchange data in a communication network is called:
(A) Gateway (B) Procedure (C) Protocol (D) Token
4. Many networks include a central computer that may be called:
(A) Server (B) Bridge (C) Gateways (D) Client
5. A television broadcast is an example of:
(A) Full duplex (B) Half duplex (C) Simplex (D) mid duplex
6. How many characters ASCII 7 bits code can represent:
(A) 16 (B) 32 (C) 64 (D) 128
7. Computer based weather forecasting depends on accurate collection of data from:
(A) Radar (B) Weather stations (C) Antenna (D) Television
8. Program's Syntax errors are detected by:
(A) Compiler (B) Linker (C) Loader (D) Debugger
9. The term that refers to all input, output and secondary storage devices is called:
(A) Central unit (B) Network point (C) Peripheral (D) internal memory
10. Which one is not a virus:
(A) Trojan Horse (B) Logic bomb (C) Macfee (D) Redlof
11. A right of person to keep his personal information away from the unauthorized access is called?
(A) Piracy (B) Privacy (C) Personal issue (D) Assets
12. Pressing and releasing the left mouse button quickly is called:
(A) Clicking (B) Dropping (C) Pointing (D) Dragging
13. The insertion point in a document is called:
(A) Mouse (B) End marks (C) Cursor (D) Eraser
14. The function in MS-Excel is used to get the smallest value is called:
(A) MAX (B) MIN (C) Minimum (D) Smallest
15. Internet differentiates one computer from another by:
(A) Architecture (B) Manufacturer (C) IP address (D) Brand Name

Roll No. _____ To be filled in by the candidate

Inter -(Part-I)-A-2016

Subject Code	2	8	3
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Sessions;2015-2017

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 is gas plasma display? | ii. Define smart card. |
| iii. What do you mean by implementation? | iv. Write two advantages of computer network. |
| v. Give two uses of Email. | vi. Define intranet. |
| vii. Write two names of unbounded media. | viii. Describe broad band. |
| ix. What is fiber optic? | |

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

2 x 6 =12

- | | |
|--|---|
| i. How computer is useful in marketing? | ii. What is Robot?Write its one use in Industry. |
| iii. Write down the function of memory Address Register. | iv. Describe three address instruction format. |
| v. Describe DMA with respect to I/O unit. | vi. What do you mean by I/O read and I/O command? |
| vii. List names of two biometrics methods. | viii. How pirated softwares spread viruses? |
| ix. What do you know about memory management function of operating system? | |

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

2 x 6 =12

- | | |
|---|--|
| i. List out four objects of windows operating system. | ii. Why do a computer needs an operating system? |
| iii. State the use of clipboard in MS word. | iv. Define word processor. |
| v. Distinguish between undo and Redo commands. | vi. What is meant by cell reference? |
| vii. Differentiate between worksheet and workbook. | viii. Briefly describe web surfing. |
| ix. How would you describe internet? | |

Section -II

Note: Answer any three questions from the following.

8x3=24

- | | |
|---|----|
| 5. Define pointing device. Explain any three pointing devices in detail. | 08 |
| 6. Explain any four components of LAN. | 08 |
| 7. What is data transmission mode?Explain its three types with examples. | 08 |
| 8. Define Van Neuman design of stored program computer with the help of diagram. Also write the function of each component briefly. | 08 |
| 9. What is virus?Discuss any three causes of virus. | 08 |

860-011-A--



Roll No. _____ To be filled in by the candidate

Paper Code 6 8 3 1

Sessions; 2012-2014,2013-2015&2014-2016

Computer Science (Objective Type)

Time: 20 Minutes

Marks: 17

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. The electronic circuit that executes computer instructions is called:
(A) Monitor (B) Hard disk (C) CPU (D) Keyboard
2. The name of screen clarity:
(A) Pixel (B) Resolution (C) Density (D) Picture quality
3. Which of the following is not a category network?
(A) WAN (B) LAN (C) MAN (D) NAN
4. DSL stands for:
(A) Direct service lease (B) Domain server link (C) Distant service line (D) Digital subscriber line
5. Unicode is:
(A) 16-bit code (B) 32-bit code (C) 64-bit code (D) 132-bit code
6. Communication between a computer and keyboard involves:
(A) Simplex (B) Half Duplex (C) Full Duplex (D) All
7. Which of the following is related to business?
(A) Marketing (B) Stock exchange (C) Banks (D) All
8. CBT software is used in:
(A) Education (B) Forecasting (C) Manufacturing (D) None of these
9. RAM holds the data/instructions:
(A) Temporary (B) Permanent (C) HDD (D) None of these
10. Which one is faster:
(A) RAM (B) Cache (C) Register (D) Hard disk
11. Which memory is used to speed up the computer processing?
(A) ROM (B) Memory Cache (C) BIOS (D) None
12. Types of translators are:
(A) Compilers (B) Interpreters (C) Assemblers (D) All
13. Computer cannot boot if it does not have:
(A) Compiler (B) Linker (C) Interpreter (D) Operating system
14. How a virus reaches from one computer to another?
(A) Data exchanged between computer (B) Exchange of display screen
(C) Exchange of keyboard (D) Exchange of printer
15. Trojan Horse is a/an:
(A) Antivirus (B) Virus (C) Software (D) Hardware
16. Internet explorer is used to:
(A) Access the internet (B) Explore the system resources
(C) Perform maintenance on the Hard Disk (D) Navigate file and folders on the computer
17. A computer can be linked to the internet through:
(A) A phone-line modem (B) DSL
(C) Cable Modem (D) All

Roll No. _____ To be filled in by the candidate

Inter -(Part-I)-A-2016

Subject Code	6	0	8	3
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Sessions;2012-2014,2013-2015&2014-2016

Computer Science (Essay Type)

Time: 3:10 Hours

Marks: 83

Section -I

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

2 x 8 =16

- | | |
|--------------------------------------|----------------------------------|
| i. Define Information. | ii. What is operating system? |
| iii. Define system software. | iv. Define dedicated server. |
| v. What is Bus Topology? | vi. What is Workgroup computing? |
| vii. Define Data Communication. | viii. What is Unicode? |
| ix. Define Analog signal. | x. Define antivirus. |
| xi. How does boot sector virus work? | xii. Write about biometrics. |

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

2 x 8 =16

- | | |
|---|--|
| i. Why does DRAM use more power? | ii. List different types of system buses. |
| iii. Distinguish between low level and high level language. | iv. State the use of serial port. |
| v. Describe Assembly language. | vi. State the purpose of execute instruction. |
| vii. Which task is performed by language processor? | viii. Give some examples of high level language. |
| ix. Describe extended partitions. | x. Give some examples of GUI operating system. |
| xi. What is a text editor? | xii. Define Status bar. |

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

2 x 6 =12

- | | |
|---|--|
| i. State the purpose of ATM. | ii. How computer can be used in Marketing? |
| iii. Define desktop publishing. | iv. Describe computer based training. |
| v. What is a robot? | vi. Define cell and how is it identified? |
| vii. What do you understand by named range? | viii. What is DNS addressing? |
| ix. Describe web publishing. | |

Section -II

Note: Answer any three questions from the following.

8x3=24

- | | |
|--|----|
| 5. What is software? Explain all types of software. | 08 |
| 6. Define network model and discuss its different models. | 08 |
| 7. What is meant by communication channel? Explain any two types in detail. | 08 |
| 8. What are CPU registers? Briefly describe special purpose registers. | 08 |
| 9. What are security threats? Discuss different security threats and solutions to these threats. | 08 |

Section -III (Practical)

5x3=15

Note: Answer any three parts from the following.

- 10.A. Write a procedure to restore one item from Recycle Bin.
- B. How do you check grammar in MS-word?
- C. Write a procedure to insert your name and Roll No. in header and city name in footer.
- D. Write a procedure for wrapping text in a cell.
- E. Write a procedure to insert a function in MS-Excel.

862-011-A--



17

Inter- (Part-I)-A-2017

Roll No. _____ To be filled in by the candidate

Paper Code	2	8	3	1
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Sessions; 2015-2017&2016-2018

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. A collection of raw fact and figure is called:
(A) Data (B) Information (C) Processing (D) Procedure
2. Types of printers are:
(A) 2 (B) 3 (C) 4 (D) 5
3. Each computer on a network is called:
(A) Node (B) Bus (C) Terminator (D) Point
4. A network that places all nodes on a single cable is called:
(A) star (B) mesh (C) ring (D) bus
5. Which of the following type of data is used to display actions and movement?
(A) Audio (B) Video (C) Image (D) Text
6. Analog signals is measured in:
(A) Voltage (B) Hertz (C) Digits (D) Walt
7. CBT software is used in:
(A) Health (B) Education (C) Manufacturing (D) Forecasting
8. Which of the followings is a temporary memory?
(A) ROM (B) PROM (C) RAM (D) EPROM
9. Computer cannot boot if it does not have:
(A) Compiler (B) Linker (C) Interpreter (D) Operating system
10. Which is harmful for computer?
(A) Antivirus (B) Virus (C) Freeware (D) Shareware
11. Which of the following media cannot be used as backup?
(A) Hard disk (B) Floppy disk (C) RAM (D) Zipdisk
12. List of documents waiting to be printed on Printer is called:
(A) Print list (B) Print Stack (C) Print Queue (D) Print line
13. Which shortcut key for making the character bold?
(A) Alt+B (B) CTRL+B (C) Shift+B (D) Alt+B
14. The vertical dimension of spread sheet is called:
(A) Field (B) Record (C) Row (D) Column
15. Webpages are written in:
(A) HTML (B) Assembly (C) HTTP (D) C++

Sessions;2015-2017&2016-2018

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. Define barcode reader. | ii. State basic use of mouse. |
| iii. What is use of fax modem. | iv. Define Defacto standard. |
| v. Describe file transfer protocol. | vi. Write purpose of metropolitan area network. |
| vii. Define signal. | viii. What is function of encoder? |
| ix. Describe synchronous transmission. | |

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

2 x 6 =12

- | | |
|---|---|
| i. Give two role of E-commerce in our daily life. | ii. What is electronic shopping? |
| iii. State the purpose of Input/output instructions. | iv. Define backup. |
| v. Define operand code. | vi. Give four names of general purpose registers. |
| vii. What is stack? | viii. State the purpose of copyright act. |
| ix. List two different names of operations performed by the computer. | |

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

2 x 6 =12

- | | |
|--|---|
| i. Define print queue. | ii. What is basic function of e mail? |
| iii. Describe the term alignment. | iv. What is meant by character formatting? |
| v. State purpose of mail merge. | vi. Distinguish between formula and function. |
| vii. Write basic use of spread sheet. | viii. List name of two web search engine. |
| ix. Distinguish between single user and multi-user operating system. | |

Section -II

Note: Answer any three questions from the following.

8x3=24

- | | |
|---|----|
| 5. What is non-impact printer?Discuss its three different types. | 08 |
| 6. What do you mean by network topology?Explain the construction and working of star topology with the help of a diagram. | 08 |
| 7. Define Guided media.Briefly describe different guided media for communication. | 08 |
| 8. Define system bus?Describe different types of system buses. | 08 |
| 9. Explain four different causes of virus spreading. | 08 |



Roll No. _____ To be filled in by the candidate

Paper Code	6	8	3	1
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Sessions;2013-2015&2014-2016

Computer Science (Objective Type) **Group-I**

Time: 20 Minutes

Marks: 17

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. How many bits are in one byte?
(A) 2 (B) 4 (C) 8 (D) 16
2. Which of the following produce low quality output on paper?
(A) Laser printer (B) Inkjet printer (C) Thermal printer (D) Dot-Matrix printer
3. The set of rules to exchange data in a communication network is called:
(A) Gateway (B) Procedure (C) Protocol (D) Token
4. Each computer on a network is called a:
(A) bus (B) point (C) terminator (D) node
5. A telephone conversation is an example of:
(A) Full duplex transmission (B) Half-duplex transmission
(C) Simplex transmission (D) Asynchronous transmission
6. Which of the following coding scheme uses 4-bit code?
(A) ASCII (B) EBCDIC (C) BCD (D) Unicode
7. Most applications of robotics are in which area?
(A) Manufacturing (B) Cooking (C) Teaching (D) Farming
8. Computer based weather forecasting depends on accurate collection of data from:
(A) Television (B) Weather stations (C) Radar (D) Antenna
9. Which one is faster?
(A) RAM (B) Cache (C) Register (D) Hard Disk
10. The operation of ALU is directed by:
(A) ALU itself (B) Control unit (C) Memory unit (D) Storage unit
11. Which is a storage device?
(A) CPU (B) Clock (C) Floppy Disk (D) Bus
12. A set of instructions that run computer is called:
(A) Document (B) Workbook (C) Hardware (D) Software
13. A program's syntax errors are detected by:
(A) Debugger (B) Compiler (C) Linker (D) Loader
14. Which of the following is an example of antivirus program?
(A) Redlof (B) Norton (C) Chernobal (D) Logic bomb
15. Trojan Horse is a:
(A) I/O device (B) Hardware (C) Virus (D) Antivirus
16. How many types of partitions are there?
(A) 2 (B) 4 (C) 6 (D) 8
17. A collection of related web pages is called:
(A) Linking (B) Web-Link (C) Internet (D) Website

Sessions;2013-2015&2014-2016

Computer Science (Essay Type) **Group-I**

Time: 3:10 Hours

Marks: 83

Section -I**2. Write short answers of any eight parts from the following.****2 x 8 =16**

- | | |
|---|---|
| i. Write two advantages of Flat panel display over CRT. | ii. What is use of Plotter? |
| iii. What is OMR? | iv. List two advantages of Peer-to-peer model. |
| v. Define De Jure. | vi. Write two advantages of MAN. |
| vii. Define analog signal. | viii. What do you mean by transmission medium? |
| ix. What is Broadband? | x. Define computer security. |
| xi. List purpose of Password. | xii. Write two principles of Data protection act. |

3. Write short answers of any eight parts from the following.**2 x 8 =16**

- | | |
|---|--|
| i. Why is RAM called Random Access Memory? | ii. Define Insertion point. |
| iii. Distinguish between source code and object code. | iv. For what purpose the PC register is used in CPU? |
| v. What is meant by instruction format? | vi. Compare compiler and interpreter. |
| vii. Enlist general purpose registers. | viii. What is role of instruction set in CPU? |
| ix. What is meant by file management? | x. What is the purpose of Recycle Bin? |
| xi. What do you know about direct memory access(DMA)? | xii. What is meant by page formatting? |

4. Write short answers of any six parts from the following.**2 x 6 =12**

- | | |
|---|--------------------------------------|
| i. What is the use of computer aided design? | ii. What is online education? |
| iii. How computer can be used in airline system? | iv. How robots are used in industry? |
| v. Write the purpose of document management system. | vi. What is active cell of excel? |
| vii. Define spread sheet. | viii. What is IP address? |
| ix. Define internet. | |

Section -II**Note: Answer any three questions from the following.****8x3=24**

- | | |
|---|----|
| 5. Define non impact printers. Discuss its different types in detail. | 08 |
| 6. What is star topology? Explain its working with diagram. Discuss its advantages and disadvantages. | 08 |
| 7. Explain different components of local area network. | 08 |
| 8. What is ROM? Briefly discuss different types of ROM. | 08 |
| 9. Explain four different causes of virus. | 08 |

Section -III (Practical)**5x3=15****Note: Answer any three parts from the following.**

- | |
|---|
| 10.A. Write a procedure to add new printer in computer. |
| B. Write a procedure to insert word-Art in MS-word. |
| C. Write a procedure for printing a document in MS-word. |
| D. Write down the procedure for rotating and wrapping text in MS-Excel. |
| E. Write a procedure for adding two numbers in MS-Excel. |



Roll No. _____ To be filled in by the candidate

Paper Code 2 8 3 5

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

Roll No. _____ To be filled in by the candidate

Inter -(Part-I)-A-2018

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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Roll No. _____ To be filled in by the candidate

Paper Code	6	8	3	5
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Session;2014-2016

Computer Science (Objective Type)

Time: 20 Minutes

Marks: 17

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. The address bus is:
(A) Bidirectional (B) Multidirectional (C) Unidirectional (D) Circular
2. CPU include all the components EXCEPT:
(A) ALU (B) CU (C) Register (D) RAM
3. Which of the following is NOT a language translator?
(A) Compiler (B) Assembler (C) Interpreter (D) Debugger
4. Which is an example of antivirus program?
(A) Trojan horse (B) Redlof (C) Boot sector (D) MacAfee
5. All files deleted from computer are stored in:
(A) My documents (B) Recycle bin (C) Temporary file (D) Sis-tray
6. In which menu page setup command is available?
(A) Format (B) Insert (C) File (D) Edit
7. Which of the following is a correct cell address?
(A) AA (B) A2 (C) 2A (D) A\$
8. ISP stands for:
(A) Internet Service Provider (B) Information Service Provider
(C) International Service Provider (D) Internet Security Provider
9. Which of the following is secondary storage device?
(A) RAM (B) ROM (C) CPU (D) CD-ROM
10. Caps lock key is a _____:
(A) Function key (B) Toggle key (C) Modifier key (D) Cursor control key
11. Each computer on a network is called:
(A) Node (B) Code (C) Mode (D) Link
12. Which layer is the top most layer of OSI model?
(A) Presentation (B) Network (C) Session (D) Application
13. Which technique uses modulation?
(A) Base band (B) Broad band (C) Bandwidth (D) Bus width
14. A device that receives messages is called:
(A) Transmitter (B) Source (C) Sink (D) Encoder
15. Which is not an example of e-commerce?
(A) Electronic banking (B) Online shopping (C) Online education (D) Online chatting
16. The fly-by-wire system is used in:
(A) Medical (B) Business (C) Education (D) Airline
17. The cells of memory are logically organised into groups of:
(A) 4 bits (B) 6 bits (C) 8 bits (D) 16 bits

Roll No. _____ To be filled in by the candidate

Session;2014-2016

Computer Science (Essay Type)

Time: 3:10 Hours

Marks: 83

Section -I**2. Write short answers of any eight parts from the following.**

2 x 8 =16

- | | |
|--|--|
| i. What is the use of keyboard? | ii. Define barcode. |
| iii. List out different types of graphic cards. | iv. Write the function of network layer. |
| v. Define extra net. | vi. What do you know about gateway? |
| vii. Write two characteristics of analog signal. | viii. Define baseband. |
| ix. How is data transmitted in synchronous transmission? | x. What is privacy issue? |
| xi. Why is backup important? | xii. Write any four names of antivirus programs. |

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

2 x 8 =16

- | | |
|--|--|
| i. Define interrupt. | ii. Why does DRAM use more power? |
| iii. Differentiate between volatile and non-volatile memory. | iv. What is port? |
| v. How does bus width affect processing speed of computer? | vi. What is the use of I/O devices? |
| vii. How can you recover the deleted files in windows? | viii. What do you know about desktop? |
| ix. Explain control panel in windows. | x. Define word processor. |
| xi. What is meant by editing a document? | xii. How does insert mode differ from overtype mode? |

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

2 x 6 =12

- | | |
|--|--|
| i. Define electronic banking. | ii. Write two benefits of using CAD in industry. |
| iii. List two uses of computer in Airline system. | iv. What is computer aided learning(CAL)? |
| v. Define function in MS excel. | vi. What is cell reference? |
| vii. Write a function in MS excel for adding five numbers. | viii. Define search engine. |
| ix. Write two limitations of e-mail. | |

Section -II**Note: Answer any three questions from the following.**

8x3=24

- | | |
|---|----|
| 5. Define pointing devices. Discuss any three pointing devices in detail. | 08 |
| 6. Describe computer network. Discuss any three components used in LAN. | 08 |
| 7. Write a note on modem. Describe its working and features. | 08 |
| 8. What is ROM? Discuss its different types. | 08 |
| 9. Describe different types of viruses. | 08 |

Section -III (Practical)

5x3=15

Note: Answer any three parts from the following.

- 10.A. How do we change date and time in MS-Window?
- B. Write a procedure to insert Header and Footer in MS-Word document.
- C. Write a procedure to change line spacing in MS-Word document.
- D. Write a procedure for rotating and wrapping text in a cell in MS-Excel worksheet.
- E. Write a procedure to insert a new worksheet in MS-Excel workbook and rename it.



Roll No. _____ To be filled in by the candidate

(For all sessions)

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

Roll No. _____ To be filled in by the candidate

(For all Sessions)**Computer Science** (Essay Type)

Time: 2:10 Hours

Marks: 60

Section -I2. 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 -IINote: 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 |

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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 trasmission
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
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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
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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 prsonal idetification?

(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

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

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

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

2 x 6 =12

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