

Max. Marks: 15

Time: ½ Hour

*Note:**(i) Attempt all the questions of this Section**(ii) Do not copy down the part questions. Write only the answer against the proper number of the question and its part according to the question paper (iii) Each question carries 1 mark.**(iv) Write the code of your question paper in bold letters in the beginning of the answer script***SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)**

1. Choose the correct Answer for each from the given Options:

- (i) The component of windows which provides a tree like view of disk, its files and folders is: ·  
 \*My Computer      \*Control Panel      \*Windows Explorer      \*Start Menu
- (ii) A characteristic of a monitor that effect on the sharpness of an image on screen:  
 \*Convergence \*Pixel \*Band width      \*dot pitch
- (iii) The Boolean expression  $A \vee B \vee C$  is called a/an  
 \*Sum term \* Literal term \*Product term \*Always 1 (iv) The number, which has no decimal point is called:  
 \*Integer      \*character      \*fixed point      \*string
- (v) All devices that are attached to the CPU are called  
 \*Input device      \* Output device      \*Peripheral devices      \*None of these (vi) It is an arithmetic operator:  
 \*<      \* \* =      \* >
- (vii) The number, which is in the exponential form is called:  
 \*floating point \*Fixed point      \*Midpoint      \*None of these (viii) Analytical Engine was invented by:  
 \*Napier      \*Charles Babbage      \*William Ought red      \*None of these
- (ix) The command that deletes directories and their content is.  
 \*Delete      \*Deltree      \*Erase      \*None of these
- (x) RAM is slot is located on:  
 \*Modem      \*Processor      \*Motherboard \*ROM
- (xi) The Operating System is more user friendly:  
 \*DOS \*Windows      \*Unix \*Apple
- (xii) This unit controls the computer hardware:  
 \*Hard disk      \*CPU      \*Keyboard      \*Mother board
- (xiii) The other name of fixed disk is:  
 \*Optical disk      \*Hard disk      \*Floppy disk      \*None of these
- (xiv) The second generation of computer characterized by  
 \*Magnetic cards      \*Artificial Intelligence      \*Transistor      \*Transformers (xv) A person who illegally breaks into another computer system is called:  
 \*System Programmer      \*Hacker      \*Computer Engineer      \*Cracker

### SECTION " B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section. All Questions carry equal marks. 2.

Write down advantages and disadvantages of computer in our daily life 3. W

rite any four difference between Digital and Analog computers.

4. Define the following Boolean Algebra terms:

(i) Variables (ii) Complement (iii) Truth Table (iv) Boolean Constant

5. State Demorgan's theorem and prove them

$$\text{i) } \overline{XY} = \overline{X} + \overline{Y} \quad \text{(ii) } \overline{\overline{X} + \overline{Y}} = \overline{\overline{X}} \cdot \overline{\overline{Y}}$$

6. What is operating system? Describe its important tasks.

7. How does start Button create windows in windows?

8. Solve the following :binary numbers:

(i)  $1001101 - 110110$  (ii)  $1010011 \times 1001$

(iii)  $1110010 + 101011$  (iv) Find 2's complement of 101102

9. Write the difference between hardcopy and softcopy.

10. Convert the following:

(i)  $(110111)_2 = (?)_{10}$  (ii)  $(DEAD)_{16} = (?)_2$

(iii)  $(346)_8 = (?)_{16}$  (iv)  $(452)_{10} = (?)_a$

11. State the importance of system software and application software.

12. Define data and information. Write the name of different types of data.

13. Write short note on any two of the following:

(i) Computer Virus (ii) Find and search (iii) Windows Explorer (iv) Wallpaper

14. How does a laser printer and dot matrix printer work? 15. Define various types of ROM.

### Section C (Detailed - Answer Question) (24)

Note: Attempt FOUR questions from this Section. All questions Carry equal Marks

16. State the importance of CPU in a computer. Explain its parts and function with block diagram.

17. Define the computer bus and describe its types.

18. Prove the following rule with the help of truth table.

$$(x + y)(x + z) = x + yz$$

19. Define programming language and write its types and explain high level language. 20. Explain the types of computer according to their capacity

21. Write note on any three of the following:

(i) Control Panel (ii) Ports (iii) Keyboard (iv) Scanner (v) Mouse

# COMPUTER STUDIES

2018

Max. Marks: 15

Time: ½ Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options:

- (i) LCD stands for:  
\*Light Code Digit \*Liquid Crystal Display \*Light Color Display \*None of these (ii)
- The command that deletes directories along with files is:  
\*DEL \*.\* \*RD \*RMDIR \*DELTREE
- (iii) Transistors were the invention of:  
\*First Generation \*Second Generation \*Third Generation \*Fourth Generation (iv) For Engineering Applications the machine used is:  
\*Laser printer \*Electrostatic plotter \*Pen plotter \*Ink-jet printer (v)
- Non-volatile memory is:  
\*SRAM \*DRAM \*DIMM \*None of these
- (vi) Laser beam technology is used in:  
\*Optical disk \*Magnetic tape \*Magnetic disk \*None of these
- (vii) According to the Associative Law of Boolean Algebra:  
\*B=BB \*A(BC)=(AB)C \*A+B=B+A \*B=B(B+O)
- (viii) The command that can show date in a prompt is:  
\*PROMPT \$date \*PROMPT \$t \*PROMPT \$d \*PROMPT \$P
- (ix) The characteristic of a monitor that effects on the sharpness of an image on screen is called:  
\*Convergence \*pixel \*bandwidth \*dot pitch
- (x) A convenient place to store documents, graphics or other files that access quickly is:  
\*My Network places \*My Documents \*My Computer \*Folder (xi)
- Arithmetic is the invention of:  
\*Charles Babbage \*Joseph Jacquard \*Charles Xavier \*Leibniz
- (xii) The process of creating sectors and tracks on disk is:  
\*Booting \*Tracking \*Formatting \*Listing
- (xiii) CD=Writer is used as device for:  
\*input \*output \*both input/output \*storage
- (xiv) The place that is used to connect various external devices to the computer is:  
\*serial \*USB \*Port \*BUS
- (xv) Antivirus software removes it:  
\*bad sector \*Dust \*insects \*Virus

# COMPUTER STUDIES

2018

Max. Marks: 60

Time: 2 ½ Hour

## SECTION "B" (Short Answer Question) Marks:36 Note:

Attempt NINE Questions from this Section.

All Questions carry equal marks.

2. What is Wallpaper? How can we change the wallpaper of the desktop?
3. Classify the monitor according to color capabilities.
4. Where we can find the deleted files and folders in the Windows operating System? Also write how the files and folder send over there?
5. State and prove the following Boolean 's Rules:  
(i)  $A + 1 = 1$  (ii)  $A \cdot 0 = 0$  (iii)  $A + A = 1$  (iv)  $A = A$

6. Differentiate between SRAM and DRAM.
7. Why do we need an Operating System?
8. Convert the following into given equivalent system:
  - (i)  $(1011100111)_2 = (?)_{16}$       (ii)  $(1705)_8 = (?)_{10}$
  - (iii)  $(340)_{10} = (?)_2$       (iv)  $(10001101)_2 = (?)_{10}$
9. Define 1<sup>st</sup> generation of computer. Name any three famous computers of 1<sup>st</sup> generation.
10. Give the appropriate DOS command for the given below: (i) Print a file ABC.TXT to printer.  
 (ii) Change the directory from XYZ to ROOT.  
 (iii) Show the list of all files whose name starts with the letter "C".  
 (iv) Find the 2's complement of  $(101011)_2$
11. Solve the following Binary numbers:
  - (i)  $(1110011)_2 + (11011)_2$       (ii)  $(11010011)_2 - (11111)_2$       (iii)  $(1010101)_2 \times (111)_2$  (iv)
 Find the 2's Complement of  $(101011)_2$
12. What do you mean by pointing input device?
13. With the help of Karnaugh map simplify each expression.
  - (i)  $\overline{ABC} + \overline{ABC} + \overline{ABC} + \overline{ABC}$       (ii)  $\overline{ABC} + \overline{ABC} + \overline{ABC}$
14. Name and define the computer which consists of both Analog and Digital system. 15. State and Prove the Demorgan's equation:  $\overline{AB} = \overline{A} + \overline{B}$

### Section C (Detailed -Answer Question) (24)

Note: Attempt FOUR questions from this Section. All questions Carry equal Marks 16.

What is Karnaugh Map? How can K-Map help to simplify a Boolean expression?

17. Define C.P.U. Describe its functions and draw block diagram.
18. Define the various coding schemes used in the computer system.
19. Define Keyboard. Explain its different parts.
20. What is a Windows desktop? Explain its important elements.
21. Define ports and its types in detail.

# COMPUTER STUDIES

2017

Max. Marks: 15

Time: ½ Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options: (i) The smallest accessible unit of memory is called:

\*bit                    \*Byte                    \*Word                    \*Nibble

(ii) A rectangular area of screen that displays different information is called:

\*Copy                    \*DOS                    \*Window                    \*Monitor

(iii) The Numbers which are written in the exponential form are called:

\*Floating Point                    \*Fixed Point                    \*Mid-Point                    \*None of These

(iv) A program written in high level language is called:

\*Hard Program                    \*Source Program                    \*System Program                    \*All of these (v) The processed form of

data is known as:

\*String                    \*Graphics                    \*Binary                    \*Information

(vi) If  $A = 0$  then  $A =$

\*0                    \*1                    \*A                    \*None of these

(vii) Laser beam technology is used in:

\*Optical disk                    \*Magnetic tape                    \*Magnetic disk                    \*None of these (viii)

Each box of memory has this address:

\*Different                    \*Unique                    \*Two                    \*None of these

(ix) Tabulating machine is the invention of:

\*Charles Babbage                    \*Joseph Jacquard                    \*Herman Hollerith                    \*Leibniz

(x) It is not a type of application software:

\*MS-Word                    \*MS-Excel                    \*Antivirus                    \*In-Page

(xi) The CD-Writer performance is measured in this unit:

\*DPI                    \*X                    \*KB                    \*Bytes

(xii) Which switch of the format command copies system fills on the disk and makes it bootable?

\*/P                    \*/X                    \*/S                    \*/0

(xiii) Laptop and desktop computers are examples of:

\*Micro Computer                    \*Super Computer                    \*Macro Computer                    \*None of these

(xiv) Auxiliary storage is this kind of memory:

\*Temporary                    \*Volatile                    \*Primary                    \*Non-Volatile

(xv) 3-variable Karnaugh map has:

\*Eight cells                    \*Three cells                    \*One cell                    \*Four cells

# COMPUTER STUDIES

2017

Max. Marks: 60

Time: 2 ½ Hour

## SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section. All Questions carry equal marks.

2. What do you mean by an operation system?
3. Write differences between impact printer and non-impact printer.

4. Define ports and describe its types.
5. Compare and contrast: Analog Computer and Digital Computer.
6. Describe any four function of Control Panel.
7. Map the following equation on a Karnaugh Map.  $ABC + ABC = ABC + ABC$  8. What is number system? Write names of its types.
9. Classify the computer according to the purpose.
10. Convert the following:
  - (i)  $(110)_2 = (?)_8$  (ii)  $(628)_{10} = (?)_2$  (iii)  $(2EE)_{16} = (?)_2$  (iv)  $(132)_8 = (?)_{10}$
11. Solve the following Binary numbers:
  - (i)  $1001 + 1010$  (ii)  $1001 \times 101$  (iii)  $1101 - 1011$  (iv)  $1001 / 11$
12. State De-Morgan's theorems and prove them. (i)  $\overline{X \cdot Y} = \overline{X} + \overline{Y}$  (ii)  $\overline{\overline{X} + Y} = X \cdot Y$
13. Explain the 4<sup>th</sup> generation of computer.
14. What are plotters? Write the names of different types of plotters.

### Section C (Detailed -Answer Question)

Note: Answer any Two Question from this section.

- 15 (a). Define C.P.U. Write about ALU and CU.
  - 15 (b). Explain Keyboard and write about its divisions.
- 16 (a). Define computer Bus and describe its types.
  - 16 (b). What do you mean by computer programming language? Discuss its types.
- 17 (a). What do you mean by Data? Describe its types.
  - 17 (b). Why do we need secondary storage device? Write about Hard disk.

# COMPUTER STUDIES

2016

Max. Marks: 15

Time: ½ Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options: (i)

The bar display at top of a Window is called:

\*Task Bar \*Tool bat \*Title Bar \*Manu Bar

(ii) Generally, there are two types of internal memory of computer:

\*RAM and ROM \*Registers and Floppy disk \*USB and Hard disk \*None of these

(iii) The process form of data is known as:

\*Sting \*Data \*Binary \*Information

(iv) Which translator translates and executes each program statement at a time? :

\*Compiler \*Editor \*Assembler \*Interpreter (v) It is

a device to read image before inputs:

\*Plotter \*Scanner \*Monitor \*Keyboard

(vi) The number of bits in a byte is:

\*Four \*Tow \*Sixteen \*Eight

(vii) This number system is ideal for the internal working of electronic compute"

\*Binary \*Decimal \*Octal \*Hexadecimal (viii)

Analytical Engine was designed by:

\*Pascal \*Hermon Hollerith \*Charles Babbage \* None of them

(ix) A small colorful graphical picture representing a file, folder or program is called:

\*folder \*image \*icon \*button

(x) The device that enables a computer to make a dial-up networking is:

\*Mouse \*Microphone \*Modem \*Monitor

(xi) The associative law of multiplication is written as

\* $AB = BA$  \*  $A(BC) = (AB)C$  \*  $AB / AC = (B + C)$  \*  $A + B = B + A$

(xii) The command that removes directories and their contents from disk is:

\*DEL \*.\* \*RD \*RMDIR \*DELTREE

(xiii) Pre-programmed memory is:

\*SRAM \*RAM \*DIMM \* None of them

(xiv) LCD stands for:

\*Light Code Digit \*Liquid Crystal Display \*Light Color Display \*None of these (xv)

The process of creating sectors and tracks on a disk is known as:

\*Booting \*Tracking \*Formatting \*Listing

# COMPUTER STUDIES

2016

Max. Marks: 60

Time: 2 ½ Hour

## SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this section. All Questions carry equal marks.

2. What is difference between digital & analog computer. 3.

Write classification of computer according to capacity

4. Define term Bus. Write the name of its types.

5. Solve the following:

(i)  $10001_2 + 10110_2$  (ii)  $111001_2 - 10111_2$  (iii)  $101010_2 / 1110_2$  (iv)  $110011_2 \times 1001_2$

6. Convert the following:

(i)  $(100000)_2 = (?)_{10}$  (ii)  $(74)_2 = (?)_{10}$  (iii)  $(126)_8 = (?)_{10}$  (iv)  $(ASD)_{16} = (?)_{10}$

7. Why do we use backing storage device?

8. Write difference between Serial and Parallel ports.

9. Prove the following equation and also draw Truth Table.

$A + A.B = A$  10. State and

prove Demorgan's Theorems.

$$(i) \overline{x \cdot y} = \overline{x} \cdot \overline{y} \quad (ii) \overline{\overline{x + y}} = \overline{\overline{x} \cdot \overline{y}}$$

11. Differentiate between Internal memory and External memory 12. Draw the K-map for the following:

(i)  $ABC + BC + \overline{A}BC$  (ii)  $\overline{A}B + A\overline{B} + AAB$

13. What is an Operating System?

14. Write advantages of 3rd Generation of Computer.

### Section C (Detailed -Answer Question) (24)

Note: Attempt 2 questions from this Section

15.(a) Differentiate between DOS and Windows.

(b) What is Number System? Describe different types of number system.

16.(a) What do you mean by dual purpose devices? Discuss CD Writer or Disk Drive.

(b) Define C.P.U. Describe function of C.P.U. Also draw block diagram.

17.(a) What is the procedure of setting a screen saver.

(b) What are the factors that determine a monitor's quality?



# COMPUTER STUDIES

2015

Max. Marks: 15

Time: ½ Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options:
- (i) The smallest unit of computer memory is:  
\*Kilo \* Byte \*Bit \*Giga (ii)
- It is a volatile memory:  
\*SROM \*PROM \*RAM \*ROM
- (iii) (\* and ?) are used in DOS as:  
\*Numeric Value \*Wildcard Characters \*Alpha-Numeric Characters \*All of these (iv)
- Set of programs means:  
\*Operating system \*Application System \*Supervisor System \*None of these (v)
- Antivirus software is used to remove:  
\*Bad sectors \*Dust \*Insects \*Virus
- (vi) This option is used in locating files or folders on the hard disk of computer system:  
\*Folder Option \*Find/Search \*Setting \*Run
- (vii) The major technological development of 2nd Generation of Computer was:  
\*Vacuum Tubes \*Microprocessor \*Transistor \*I.C.
- (viii) Artificial intelligence is called this generation:  
\*2nd \*3rd \*4th \*5th
- (ix) There are two types of computer memory which are called:  
\*REM & ROM \*RAM & ROM \*SRAM & SROM \*All of these
- (x) If performs the Arithmetic and Logical Operation:  
\*MU \*CU \*ALU \*COM
- (xi) Keyboard and Mouse a.re common devices, Called:  
\*Dual devices \*Input devices \*Output Devices \*Input & output devices (xii) Inkjet printer and Laser Printer are the examples of:  
\*Non-Impact Printer \*Impact Printer \*Drum Printer \*None of these (xiii)
- Integer data consists of:  
\*Character \*Real \*Fixed Point \*Whole Number (xiv)
- The base of hexa-decimal is:  
\*2 \*8 \*10 \*16
- (xv) Karnaugh map with three variables consists of:  
\*Sixteen cells \*Eight Cells \*Four Cells \*Three Cells

# COMPUTER STUDIES

2015

Max. Marks: 60

Time: 2 ½ Hour

## SECTION "B" (Short Answer Question) · Marks:36

Note: Attempt NINE Questions from this Section. All Questions carry equal marks.

2. What is the time period of 1st generation of computer? Name any three famous computers of 1<sup>st</sup> generation.
3. What is the mainframe computer? Where it is used?
4. What are the concepts of source program and object program? Also describe the importance of language translator.
5. What are the purposes of Input devices and output devices in computer system?
6. Write down the use of scanner with example.
7. Define ports? Compare and contrast serial ports and parallel ports.
8. Write the full names of the following abbreviations:  
(a) EPROM (b) RMDIR (c) EDVAC (d) HD.
9. Convert the following into given number system:  
(i)  $(65)_{10} = (?)_2$  (ii)  $(10111)_2 = (?)_{10}$  (iii)  $(472)_{10} = (?)_{10}$  (iv)  $(545)_8 = (?)_{10}$
10. Solve the following binary numbers:  
(i)  $1011 + 0011$  (ii)  $1111 - 1000$  (iii)  $11101 \times 10$  (iv)  $10011 / 1000$
11. Prove the following with the help of truth table and Boolean Algebraic techniques:  
(a)  $A + A.B = A + B$  (b)  $A / AB = A$
12. Why are special purpose and general purpose software prepared?
13. Write the uses of internal & external commands in DOS.
14. Where we can find the deleted files and folders in windows operating system? Also write the steps of move file or folder over there

## Section C (Detailed -Answer Question) (24)

Note: Attempt 2 questions from this Section

- 15.(a) What are cursor controlling keys in a Keyboard? Define two modifier keys also.  
(b) Draw a block diagram of computer system with sub units of CPU also Define functions of CPU.
- 16.(a) Describe the impact and useful implementation of computer in education and business,  
(b) How can we classify the printers by their characteristics? Explain
- 17.(a) Explain the Boolean algebraic operators with the help of truth tables. (b)  
What do you mean by bus? Write types of bus in detail.

# COMPUTER STUDIES

Max. Marks: 15

2014

Time: 1/2 Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options:

(i) The term compute is derived from

\*compute \*cont \*calculator \*none of these

(ii) Which is more reliable among these?

\*Serial \*parallel \*Buses \*all of these

(iii) 4 bites = : \*1 byte \*half byte \*nibble \*none of these

(iv) Organization of computer depends on:

\*hardware \*software \*number system \*none of these

(v) In computer 16 kb means: \*16000 \*16384 \*10000 \*256

(vi) The range of months in date command is:

\*0-12 \*0-11 \*1-12 \*1-11

(vii) The founder of Boolean Algebra is:

\*Charles Babbage

\*George Boole

\*John Napier

\*Leibniz's Calculator

(viii) WWW stands for: \* World welcome Web \*World wide website

\*Wide web website \*world wide web

(ix) LBA stands for: \*logical block address \*logical buffer area

\*logical block area \*none of these

(x) Output Displayed on screen is called:

\*Softcopy \*Software \*live ware \*hardcopy

(xi) Organized form of data is called:

\*DATUM \*information \*system \*none of these

(xii)  $(456)_{10} = (?)_8$ : \*710 \*5EB \*3A9 \*None of these

(xiii) According to Distributive law: \* $A(B+C)=AB+AC$

\* $A(AC)+ABC$  \* $(A+B)=(B+A)$  \* $B+B=B+C$

(xiv) The first electromechanical computer was

\*ENIAC \*Mark-I \*EDVAC \*UNIVAC

(xv) The data consisting of whole number is known as:

\*real \*integer \*fixed point \*string

# COMPUTER STUDIES

2014

Time: 2 ½ Hour

Max. Marks: 60

SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section.

All Questions carry equal marks.

2. Define: (a) Computer (b) Boolean constant .
3. Write down capabilities and limitations of computer.
4. Write full forms of the following: (a) IBM (b) HDD (v) CRT (d) ASCII
5. Solve the following (i)  $111001 \times 1111$  (ii)  $111001 / 111001$  (iii)  $110110/100$   
(iv)  $11110$ (2's complement)
6. State and prove De-Morgan's Theorem:  
(i)  $x \cdot y = \overline{\overline{x} + \overline{y}}$  (ii)  $\overline{x + y} = \overline{x} \cdot \overline{y}$
7. Draw the K-map for the following:  
(i)  $AB + AB + AB$  (ii)  $ABC + ABC + ABC + ABC$
8. Differentiate between internal and external commands.
9. Define bus. How many types of bus are there? Write down the names only.
10. Define keyboard .
11. Define types of computer according to their size.
12. Differentiate between Data and Information.
13. Convert the following (i)  $(555)_{10} = (?)_2$  (ii)  $(78BC)_{16} = (?)_2$   
(iii)  $(745)_8 = (?)_{16}$  (iv)  $(1110001)_2 = (?)_{10}$
14. What is the difference between hardware and software?

Section C (Detailed —Answer Question) (24)

Note: Attempt 2 questions from this Section

15. (a) Draw a block diagram of CPU and explain the following parts: .  
(i) ALU (ii) Control Unit .  
(b) Differentiate between high level and low level languages.
16. (a) Draw and prove the truth table for the following: .  
 $(A+B)(A+C) = A+BC$   
(b) Define properties of Windows Operating System.
17. (a) Define printer and describe its types.  
(b) Draw generation table

# COMPUTER STUDIES

2013

Max. Marks: 15

Time: 1/2 Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options:

(i) The other name of fixed disk is:

\*Hard Disk      \*Optical Disk      \*Floppy Disk      \*All the above

(ii) The number which has no decimal point is called:

\*Integer      \*Character      \*Fixed point      \*String

(iii) The bar displayed at the bottom of the desktop is known as:

\*title bar      \*task bar      \*menu bar      \*tool bar

(iv) Pre-Programmed memory is

\*SRAM      \*DRAM      \*DIMM      \*None of these

(v) Plotters can be generally divided into

\*Two types      \*Three types      \*Four types      \*Five types

(vi) Impact printer is an example of:      \*Drum Printer      \*Dot-Matrix Printer

\*Daisy wheel printer      \*None of these

(vii) High level languages are similar to:      \*Machine Language      \*Assembly Language      \*English Language      \*None of these

(viii) ROM has special program called:

\*Firmware      \*Live ware      \*Hardware      \*Software

(ix) The screen output which is intangible and temporary refers to:      \*Softcopy      \*Hardcopy

\*Source code      \*Object code

(x) The physical components of a computer system are termed as:      \*Firmware      \*Live ware      \*Hardware      \*Software

(xi) BUS is a set of:

\*Connectors      \*Wires      \*Ports      \*RAM

(xii) The device that enables a computer to make a dial-up networking is:

\*Mouse      \*Microphone      \*Modem      \*Monitor

(xiii) The major invention of the 1st generation of computer was:      \* Mark-I      \*Osborn

\*UNIVAC      \*Monitor .

(xiv) The Boolean expression ABC is an:

\*Sum term      \*Literal term      \*Product term      \*Always 1

(xv) The command that deletes directories and their contents is:

\*DEL      \*TREE                      \*RMDIR                      \*DELTREE

## COMPUTER STUDIES

2013

Max. Marks: 60

Time: 2 1/2 Hour

### SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section.

All Questions carry equal marks.

2. Explain the functions of Windows Explorer.
3. Define data. What is Data Processing Cycle? Explain information.
4. What is an Output device? Write down the capabilities of Monitor.
5. What are the functions of Numeric Key pad in keyboard? Explain
6. Convert the following:  
(i)  $(1010)_2 = (?)_8$  (ii)  $(E34)_{16} = (?)_{10}$  (iii)  $(777)_8 = (?)_{16}$  (iv)  $(333)_{10} = (?)_2$
7. Convert the following:  
(i)  $(1001101)_{10} - (110110)_{10}$  (ii)  $(1010011)_2 \times (1001)_2$  (iii)  $(110011)_2 / (100)_2$  (iv)  $(101011)_2 / (100111)_2$
8. Why the source code is needed to be translated into machine code?
9. What is the impact of computer on the society?
10. Write down briefly the functions of C.P.U.
11. How many logical operators are in Boolean algebra?
12. Prove the following equation with the help of Truth Table.  
 $(A+B).B=A$
13. Which device is used as an Input as well as an Output.
14. Define Register. How many Registers are in the C.P.U.

### Section C (Detailed — Answer Question) (24)

Note: Attempt 2 questions from this Section

15. (a) Write down the classification of computer according to Data Handle?  
(b) Define properties of Windows Operating System.
16. (a) What do you mean by programming language? How many types of languages are there?  
(b) What is an Operating System? Write down the Characteristics of DOS?
17. (a) Define Software. Discuss different types of software.  
(b) What is a Plotter? Write down the different kinds of plotters and their functions.

# COMPUTER STUDIES

2012

Max. Marks: 15

Time: 1/2 Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCOs).

1. Choose the correct Answer for each from the given Options:

(i) This command is used to execute a program:

\*LOAD \*LIST \*RUN \*SAVE

(ii) The device mostly used for computer or video games:

\*Mouse \*Light pen \*Trackball \*Joystick

(iii) The Difference engine was designed by: \*

\*Pascal \*Dr. Harmon Hollerith \* Charles Babbage \*John Napier

(iv) The category of computer application software is:

\*MS-WORD \*Windows \*DOS \*None of these

(v) Impact Printer is an example of:

\*Drum printer \*Dot-Matrix Printer \*Daisy wheel Printer \*None of these

(vi) The process of creating sectors and tracks on disk is known as:

\*Booting \*Tracking \*Formatting \*Listing

(vii) In computer term 16. kb means \*16000 \*16384 \*1000 \*256

(viii) ROM has special programs called:

\*Firmware \*Live ware \*Hardware \*Software

(ix) The other name of fixed disk is:

\*Hard Disk \*Optical Disk \*Floppy Disk \*All of these

(x) Transistors were used in this generation of Computer:

\* First \*Second \*Third \*Fourth

(xi) Command is used to show the contents of text file:

\*RUN \*TREE \*TYPE \*PATH

(xii) High Level Languages are similar to: \*Machine Language

Assembly Language \* English Language \*None of these

(xiii) A language translator which translates one instruction at a time is called: \*Compiler \*Interpreter

\*Assembler \*All of these

(xiv) The first electromechanical computer was:

\*ENIAC \*MARKS-I \*UNIVAC \*EDVAC

(xv) Set of wires which is used as the communication path. \*Bus \*Port

\*Input Device \*Memory

CBE



Max. Marks: 60 Time: 2 ½

SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section. All Questions carry equal marks.

2. Define ROM and name its types.

3. Define dual purpose device with examples.

4. What is Antivirus? Name any three anti viruses.

5. Differentiate between Hard copy and Soft copy.

6. How can you change the wallpaper of the desktop?

7. Draw the "K" Map for the following expression:

(i)  $AB + \bar{A}B + AB\bar{A}$

(ii)  $ABC + ABC + ABC + ABC$

8. Write notes on the following:

(i) Recycle Bin (ii) My Documents

9. What do you know about ABACUS and where is used nowadays,

10. Write full names of the following:

(i) ASCII (ii) BASIC (iii) C.R.T (iv) L.C.D.

11. What is Computer? Write down the capabilities of Computer.

12. Solve the following

(i)  $(ABC)_5 = (\dots)_{10}$  (ii)  $(11101)_2 = (\dots)_{10}$

(iii)  $(357)_8 = (\dots)_2$  (iv)  $(555)_{10} = (\dots)_2$

13. Solve the following:

(i)  $(100110)_2 + (10)_2$  (ii)  $(1110)_2 \times (111)_2$

(iii)  $(100001)_2 - (11111)_2$  (iv) 2's Complement of  $(01101110)_2$

14. Define Printer and write its kinds.

Section C (Detailed — Answer Question) (24)

Note: Attempt 2 questions from this Section

15. (a) Define a language Translator and write its types.

(b) Draw the generation table and give the details of the 2nd Generation of Computer.

16. What are the laws of Boolean Algebra? Explain its operators with the Truth table.

(b) What is an input Device? Write down the characteristics of it.

17. (a) Differentiate: (i) DOS and Windows Operating system

(ii) Internal and External Commands of DOS

(b) Convert the following expression into S.O.P from:

(i)  $(A+B)(B+C+D)$  (ii)  $A(B+CD)$

# COMPUTER

2011

Max. Marks: 15

Time: ½ hours

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCQs)

1. Choose the correct Answer for each from the given Options:

(i) The number which has no decimal point is:

\* Integer \*Character \*Fixed-point \*String

(ii) When two or more sum terms are multiplied, the resulting expression is a:

\*POS \*SOP \*POP \*None of them

(iii) The commutative law of multiplication is written as:

\*A+B=B+A \*AB=BA \*A(B+C)=AB+AC \*A+(B+C)=(A+B)+C

(iv) The program directly related to the computer hardware, controlling and utilizing the are known as:

\*System Software \*Operating System

\*Application Software \*Special purpose Software

(v) An operating system is a: \*set of users \*supervisor program

\*application Software \*set of programs

(vi) The command that creates a new director is:

\*MAKEDIR \*MDIR \*MKD \*MKDIR

(vii) A small colourful graphical picture representing a file, folder or program is called:

\*Folder \*Image \*Icon \*Button

(viii) The program stored in ROM is also called: \*Software \*Live ware

\*Firmware \*Hardware

(ix) The Boolean Expression ABC is a:

\*Sum Term \*Product Term \*Literal Term \*Always 1

(x) LCD stands for:

\*Light Code Digit \*Liquid Crystal Display \*Light Colour Display

\*None of them

(xi) Title, The Father of Computer is given to:

\*Charles Babbage \*William Oughtred

\*Hermain Holerith \*Blaise pascal

(xii) The bar displayed at the bottom of the desktop is known as:

\*Title bar \*Task Bar \*Tool bar \*Menu Bar

(xiii) The Screen output which is intangible and temporary refers to:

\*Softcopy \*Hardcopy \*Source Code \*Object Code

(xiv) Hard Disk is a storage device:..

\*Volatile            \*Permanent            \*Primary            \*None of them

(xv) The speed of CD ROM is measured in X and 1x is equal to.....

\*150        \*128 \*1024 \*10

## COMPUTER

**2011**

Max. Marks: 60

Time: 2½ Hour

SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section. .

All Questions carry equal marks.

2. Define computer.

3. Differentiate between Analog and Digital Computer.

4. Define Keyboard and write down the names of its parts.

5. Describe functions of Primary Memory.

6. Define Ports and describe its types.

7. Why do you need Language Translator?

8. Define Virus and write different names of Viruses.

9. Convert the following:

(i)  $(8010)_{10} = (\text{-----})_2$

(ii)  $(111001)_2 = 2s \text{ Com}$

(iii)  $(11110101)_2 = (\text{-----})_{10}$

(iv)  $(5671)_8 = (\text{-----})_{10}$

10. Prove the following rule of Boolean Algebra with the help of truth table.

$(A+B)(A+C) = A+BC$

11. Solve the following Binary umbers:

(i)  $111011 + 101011$

(ii)  $110110 + 1110000$

(iii)  $11011 - 10011$

(iv)  $110111 \times 11$

12. What is the difference between Hardware and Software?.

13. What are wildcard characters? Write the uses of them.

14. Write short notes on any two of the following:

(a) Icon (b) Taskbar (c) My Computer (d) My Documents.

(e) Windows Explorers

### Section C (Detailed —Answer Question) (24)

Note: Attempt 2 questions from this Section

15. (a) Draw Generation Table of Computer.

(b) Draw block diagram of CPU and describe its different components.

16. (a) What is a Number system? Describe different types of number systems. (b) Define the term BUS, Write its types in detail.

17. (a) What is the difference between DOS and Window Operating System? (b) What is a Printer. Describe Impact & Non-Impact Printer.

# COMPUTER STUDIES

2010

Max. Marks: 15

Time: 1/2 Hour

## SECTION "A" MULTIPLE CHOICE QUESTIONS (MCOs)

1. Choose the correct Answer for each from the given Options:

(i) A port which transmit only 1 bit of information at a time is called:

\*Serial Port \*Parallel Port \*Both Ports \*None of them

(ii) The physical components of a computer system are termed as:

\*Hardware \*Software \*Live ware \*Firmware

(iii) Pre-programmed memory is:

\*SRAM \*DRAM \*DIMM \*None of them

(iv) Plotters can be generally divided into:

\* two types \*three types \*four types \*five types

(v) Bus is a set of: \*Connectors \*Wires \*Ports \*RAM

(vi) Slide Rule was invented by:

\*Blaise Pascal \*William Oughtred \*Leibniz \*Charles Babbage

(vii) LCD stands for:

\*light Code Digit \*Liquid Colour Display  
\*Light Colour Display \*List Code Digit

(viii) Non-volatile memory is:

\*ROM \*Cache Memory \*RAM \*All of them

(ix) An eight bit sequence is called:

\*Word \*Cell \*Nibble \*Byte

(x) The data which consists of whole numbers is known as:

\*fixed point \*floating point \*real \*Integer

(xi) A 2-variable K-Map has:

\*four cells \*two cells \*three cells \*five cells

(xii) The Boolean expression ABC is a:

\*sum term \*literal term \*product term

(xiii) The command that deletes directories and their contents is:

\*DELL \*DELTREE \*IDMIR \*RDREE

(xiv) The bar, displayed at the top of a window is known as:

\*Menu bar \*Title bar \*Tool bar \*Task bar

(xv) The device that enables a computer to make a dialup networking is:

\*Mouse \*Microphone \*Modem \*Monitor

# COMPUTER STUDIES

2010

Max. Marks: 50

Time: 2 1/2 Hour

## SECTION "B" (Short Answer Question) Marks:36

Note: Attempt NINE Questions from this Section.

All Questions carry equal marks.

2. What are characteristics of the 4th generation of computers.
3. What is the difference between SRAM & DRAM?
4. What are the advantages of Internet?
5. Define Microcomputer and Minicomputer.
6. Describe general and special purposes of software.
7. Why do we need to translate a source code into the machine
8. Solve the following numbers
  - (i)  $(754)_8 = (?)_{10}$                       (ii)  $(487)_2 = (?)_8$
  - (iii)  $(1010001)_2 = (?)_{10}$                 (iv)  $(201)_{10} = (?)_2$
9. Solve the following binary numbers:
  - (i)  $(101101)_2 + (1101011)_2$             (ii)  $(110101)_2 - (101011)_2$
  - (iii)  $(1011)_2 + (101)_2$                 (iv)  $(1001)_2 + (11)_2$
10. Prove the following equation & also draw the truth table:  
 $(X+Y)(Y+Z) = X+YZ$
11. Draw Karnaugh Map for the following expression:
  - (i)  $ABC + \bar{A}BC + ABC + ABC + ABC$     (ii)  $AB+AB+AB$
12. Define an Operating System.
13. Describe the properties of Windows Operating System.
14. What do you know about Windows Explorer

### Section C (Detailed —Answer Question)

Note: Attempt 2 questions from this Section

15. (a) Define CPU with a diagram & describe all its major part.  
 (b) Describe a Keyboard and give its divisions.
16. (a) What is mean by Data? Define Different Types of Data  
 (b) Write notes on Floppy disk, Hard disk & Magnetic tape.
17. (a) Define the following terms of Boolean Algebra:
  - (i) Constant (ii) Variable (iii) Logical operator (iv) Complement (v) Truth Table
  - (vi) Boolean expression
- (b) What is a monitor? Define various types of monitor in detail.