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PREPARATION PAPER OF NINTH STANDARD COMPUTER STUDIES

SESSION 2019-2020

IMPORTANT QUESTIONS FOR SECTION 'B'

CHAPTER # 1: INTRODUCTION TO COMPUTER

1. **Define types of computer according to their size.**
2. Differentiate between general purpose and special purpose computers.
3. **Write advantages of 1st or 4th generation of computer. OR** Describe the ages of computers.
4. **What is the Mainframe computer? Where it is used? OR Write a short on Super computer and Mainframe computer.**
5. Compare and Contrast: Analog Computer and Digital Computer.
6. What is computer? Write down the capabilities and limitations of computer.
7. **What is the impact of computer on the society?**
8. **Define a Microcomputer and Minicomputer.**
9. What are the advantages of internet?
10. **What do you know about ABACUS and where it is used nowadays?**

CHAPTER # 2: COMPUTER COMPONENTS

1. Differentiate between Serial and Parallel ports.
2. **Define the term Bus. Write down the name of it's types.**
3. **Differentiate between internal memory and external memory.**
4. **What are the purpose of input devices and output devices in computer system?**
5. Write down briefly the functions of C.P.U.
6. **Define Registers. How many registers are there in C.P.U?**
7. **Differentiate between Internal and External memory.**
8. Differentiate between Hardware and Software.
9. **Differentiate between RAM and ROM.**
10. **Describe functions of Primary memory.**

CHAPTER # 3: INPUT/OUTPUT DEVICES

1. **Classify the monitor according to color capabilities.**
2. **What do you mean by pointing input device? Write some examples of such devices.**
3. Write differences between impact printer and non-impact printer.
4. **What are plotters? Write the names of different types of plotters.**
5. Write the use of scanner with example.
6. **Which device is used as an input as well as an output? OR** Define Dual Purpose device with examples.
7. **What is an output device? Write down the capabilities of monitor.**
8. What are the functions of Numeric Keypad in keyboard? Explain.
9. Define printer and write its kinds.
10. **Define Keyboard and write down the names of its parts.**
11. **Define an input device and describe Mouse** OR Light Pen.

Write the full form of the following:

a) ASCII	**b) IBM**	**c) LCD**	**d) BASIC**	**e) HDD**
f) CRT	**g) EDVAC**	**h) EPROM**	**i) RMDIR**	**j) WWW**
k) USB				

CHAPTER # 4: STORAGE DEVICES

1. **Why do we use Backing storage devices?**
2. Define ROM and name its types.
3. **What is the difference between SRAM and DRAM.**
4. Differentiate between SIMM and DIMM

CHAPTER # 5: DATA REPRESENTATION

1. **Convert the following into given equivalent system:**
   a) $(AB2C)_{16} = (?)_2$ **b) $(545)_8 = (?)_2$** c) $(1010001)_2 = (?)_{10}$
   e) **$(2900)_{10} = (?)_{16}$** f) $(8236)_{10} = (?)_8$ **g) $(111001)_2$ = 2's Complement**
   h) $(ABC5)_{16} = (?)_{10}$ **i) $(777)_8 = (?)_{16}$** j) $(65)_{10} = (?)_2$
2. **Solve the following binary numbers:**
   a) **(1010011) x (1001)** **b) (110011) / (100)** c) (100001) - (11111)
   e) **2's complement of 01101110** **f) (110110) + (1110000)** **g) (1011) x (101)**
   h) 101101 - 111001
3. **What is Number system? Write names of its types.**
4. Differentiate between Data and information.
5. Define Data. What is Data processing cycle? Explain information.
6. Define data and briefly state its kinds?
7. **What are computer codes? Name the various coding schemes used in the computer system.**

CHAPTER # 6: BOOLEAN ALGEBRA

1. **Draw Karnaugh Map for the following expression:**
   a) $\overline{A}BC + A\overline{B}C + \overline{A}\,B\,\overline{C} + \overline{A}BC + ABC$
   b) $\overline{A}\,B + A\,\overline{B} + AB$
   c) $AB + A\,\overline{B} + \overline{A}B$
   d) $\overline{A}\,\overline{B}\,\overline{C} + BC + ABC$
2. **State and prove De Morgan's theorems.**
   a) $\overline{AB} = \overline{A} + \overline{B}$ **b)** $\overline{A + B} = \overline{A}\,.\,\overline{B}$
3. **How many Logical operators are there in Boolean Algebra?**
4. Define: a) Boolean constant b) Boolean variables c) Boolean expression
   d) Logical operator e) Truth table f) Complement

CHAPTER # 7: COMPUTER SOFTWARE

1. **What do you mean by an operating system?**
2. **Differentiate between DOS and Windows.**
3. **Why are Special and General purpose software prepared?**
4. **Differentiate between internal and external commands.**
5. Why the source code is needed to be translated into machine code?
6. **What are Wildcard characters? Write the uses of them.**
7. **Why do you need language translator?**
8. **Define a programming language and state its type**.
9. Differentiate between High Level and Low level language. **<u>OR</u> Give the appropriate DOS command for the task given below: (i) Print a file ABC. TXT to printer (ii) Change the directory from XYZ to ROOT (iii) Display volume label of D drive on screen (iv) Copy entire contents of disk to another disk**

CHAPTER # 8: INTRODUCTION TO WINDOWS OPERATING SYSTEM

1. **Describe any four functions of Control Panel.**
2. **What is the procedure of setting a screen saver?**
3. **Differentiate between DOS and windows operating system.**
4. Differentiate between Compiler and Interpreter.
5. **Explain the functions of Windows explorer?**
6. What are the functions of start button?
7. **What is computer virus? How we can protect our computer from it.**
8. **What is Antivirus name any three anti viruses.**

IMPORTANT QUESTIONS FOR SECTION 'C'

DETAILED - ANSWER QUESTIONS

CHAPTER # 1: INTRODUCTION TO COMPUTER

- **Draw the generation table and describe the generations of computer.**
  OR Draw the generation table and give the details of 2nd generation of computer.
- Write down the classification of computer according to data handle.
- **Describe the impact and useful implementation of computer in education and business.**

CHAPTER # 2: COMPUTER COMPONENTS

- Define the term BUS. Write it's types in detail.
- **Draw a block diagram of C.P.U and define the following terms with their major functions:**
  (i) Arithmetic Logic Unit (ii) Control Unit

CHAPTER # 3: INPUT/OUTPUT DEVICES

- **What do you mean by Dual Purpose devices? Discuss CD-Writer or Disk Drive.**
- **What are cursor controlling keys in a keyboard? Define two modifier keys also.**
- Define Printer and describe it's types. **OR How we can classify the printers by their characteristics? Explain.**
- **Define ports and its types in detail.**
- What is an Input device? Write down the characteristics of it.
- **What is a Monitor? Describe various types of monitor in detail.**
- What are the factors that determine the monitor's quality?

CHAPTER # 4: STORAGE DEVICES

- **Write short notes on Floppy Disk, Hard Disk and Magnetic Tape.**

CHAPTER # 5: DATA REPRESENTATION

- What do you mean by Data? Describe its types.
- **What is Number System? Describe different types of Number system.**

CHAPTER # 6: BOOLEAN ALGEBRA

- **Explain the Boolean algebraic operators with the help of Truth Table. OR** State the laws of Boolean algebra.
- Prove the following equation and draw Truth table.
  a) A + A.B = A b) (A + B) (A + C) = A + BC c) (X + Y) (X + Z) = X + YZ
- **Convert the following expression into S.O.P form:**
  i) (A + B) (B + C + D) ii) A (B + CD)

CHAPTER # 7: COMPUTER SOFTWARE

- **What is an Operating system? Write down the characteristics of DOS.**
- **Define software. Discuss types of software.**
- What do you mean by Programming language? How many types of programming languages are there?
- **Define a Language Translator and write its types.**

CHAPTER # 8: INTRODUCTION TO WINDOWS OPERATING SYSTEM

- **Define properties of Windows operating system.**
- Write notes on the following: a) Recycle Bin b) My Documents c) Task Bar
  d) Icon e) My Computer f) Folder

NOTE:

'**BOLD MARKED**' Questions are the **MOST IMPORTANT QUESTIONS**.