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COMPUTER STUDIES
(Three hours and a quarter)

[The first 15 minutes of the examination is for reading the question paper **only**.
Candidates must **NOT** start writing during this time.]

SECTION A [50 MARKS]
(Attempt ALL questions.)

QUESTION 1:

[10x1=10]

Directions: Each question in this section is followed by four possible choices of answers.
Choose the correct answer and write it down in the answer sheet provided.

1. A volatile memory is a memory:
 - a. That stores data when the power is off.
 - b. That only stores data when the power is on.
 - c. That works over extreme temperature.
 - d. Memory that is very fast.
2. Which of the following is not considered software?
 - a. Operating System
 - b. Flash Drive
 - c. Mobile Applications
 - d. Internet Explorer.
3. Select an output device from the following list.
 - a. Keyboard
 - b. Monitor
 - c. Mouse
 - d. Joystick
4. Which generations of the computer used transistors as the basis?
 - a. 1st
 - b. 3rd
 - c. 2nd
 - d. 4th.
5. PCI stands for
 - a. Peripheral Component International
 - b. Peripheral Component Intel
 - c. Personal Component Inside
 - d. Peripheral Component Interconnect.
6. Information on a computer is stored in the form of files. A computer file can be of the type:
 - a. Input files
 - b. Graphic files
 - c. output files
 - d. hardware files
7. Computer programs or instructions telling the computer and its hardware what to do is called.
 - a. Driver
 - b. Hardware
 - c. software
 - d. audio
8. External storage media popularly used with the PC are:
 - a. MS word
 - b. Key board
 - c. Hard disk
 - d. CPU

9. .MP3 is the extension used for _____ files.
- a. Video
 - b. Text
 - c. software
 - d. audio
10. The CPU includes the following **EXCEPT**:
- a. Memory
 - b. Control Unit
 - c. ALU
 - d. monitor

QUESTION 2:

Fill in the blanks with appropriate words or phrases.

[10x1=10]

1. List of instructions telling the computer what to do is called _____.
2. _____ is the unit of the computer that stores the programs and data for the computer to function well.
3. Booting the computer is the main function of _____.
4. The first microprocessor was introduced in _____.
5. _____ is the basic unit of programmable colors on a computer display.
6. A _____ is a peripheral which makes a representation of an electronic document on physical media.
7. JPEG stands for _____.
8. The decimal number systems are base _____.
9. Programs written to get rid of virus are known as _____.
10. _____ is the example of primary memory and a temporary memory.

QUESTION 3

[15x2=30]

Direction: While answering these questions, indicate briefly, your working and reasoning wherever required.

1. List down four uses of computers.
2. Identify the type of files based on the following file extension.
 - i) Hello.wmv
 - ii) Work.xlsx
3. What is application software?
4. Explain the uses of the two most important parts of a motherboard.
5. What is an operating system?
6. What is an ASCII code?
7. Define resolution.
8. Differentiate primary and secondary memory.
9. List down the benefits and limitations of computer.
10. What would be the computer's interpretation on the word 'CAT'?
11. What are the two types of DVD?
12. What do you understand by 'Internet Service Providers'?

13. What is a graphic file?
14. What do you mean my computer hardware?
15. What is the work of a CPU?

Section B [50 Marks]
Attempt ALL questions

QUESTION 4:

- a. List down the four categories of computers and write about it. [5]
- b. Write down the working of a laser printer. List down its advantages and disadvantages. [5]

QUESTION 5:

- a. Write about computer system. Explain each and every components of it. [4]
- b. Differentiate hardware and software based on Definition, Functions, Durability and Types. [4]
- c. Divide: i. $1101101 / 101$ ii. $00111 / 11$ [2]

QUESTION 6:

- a. List down the three basic works of a microprocessor. [3]
- b. Define the following [4]
 - i. Browser
 - ii. Search Engine
- c. What is a motherboard? [1]
- d. What do you understand by the term internet? [2]

QUESTION 7:

- a. Define binary numbers. [1]
- b. Perform multiplication on the given binary numbers and convert the answer to decimal number. [6]
 - i. 11010×11 ii. 1111×101 iii. 10100×111
- c. Write about any three files that can be stored in the storage media [3]

QUESTION 8:

- a. Write about Dot Matrix printer. Include its advantages and disadvantages also. [4]
- b. Write about any three types of storage media. [3]
- c. Why is CD-R also referred to as WORM? [1]
- d. Write about anything that you found interesting while learning CTS. Give reasons. [2]