

General Instruction:

- (a). Make sure to follow a sequence while writing.
- (b). Paper is divided into three sections i.e. A, B and C
- (c). Section A contains VERY Short Answer Type questions of 5 marks
- (d). Section B contains Short Answer Type Questions of 10 marks with internal choices
- (e). Section C contains Long Answer Type Questions of 10 marks

SECTION A (VERY SHORT ANSWER TYPE)-5 MARKS

- | | | |
|------------|--|---|
| Q1. | The Physical components of computer are called | 1 |
| | (a) Software (b) Hardware | |
| | (c) ALU (d) CPU | |
| Q2. | The CPU is also known as | 1 |
| | (a) The Brain (b) The Processor | |
| | (c) The Central Processing Unit (d) All of these | |
| Q3. | Python uses a/an -----language | 1 |
| | (a) High Level (b) Object Oriented | |
| | (c) Procedural (d) Difficult | |

Q4 and 5 are ASSERTION AND REASONING based questions. Mark the correct choice as

- A) Both A and R are true and R is the correct explanation for A
- B) Both A and R are true and R is not the correct explanation for A
- C) A is True but R is False
- D) A is false but R is True

- | | | |
|------------|--|---|
| Q4. | Assertion: In Python, one can work in interactive mode and script mode.
Reasoning: Interactive mode gives the outputs of commands interactively while script mode doesn't. | 1 |
| Q5. | Assertion: Complementarity law deals with addition and multiplication of a complement with its original Boolean variable.
Reasoning: DeMorgan's Theorem also deals with complementation and is the same as complementarity law. | 1 |

SECTION B (SHORT ANSWER TYPE QUESTIONS)- 10 MARKS

Q6. Who was Python's developer and which two language contributed to Python as a programming language. 2

OR

What does a cross platform language mean?

Q7. What are advantages and limitations of Python? 2

Q8. What is the function of memory? What are its measuring units? 2

OR

What ROM and RAM? How are they alike?

Q9. To run your computer system, what types of software are necessary?. What role does each type of play in computer's functioning? 2

OR

Fill in the blanks, Convert the following into bytes:

(a) 2MB =----- Bytes

(b) 3.7GB =-----Bytes

Q10. Distinguish between internal memory and external memory. 2

SECTION C (LONG ANSWER TYPE QUESTIONS)- 10 MARKS

Q11. Briefly explain the functional components of a computer system. 4

Q12. (a). What is cache memory? How its useful? 6

(b). Write any two differences between CPU and ALU.

(c). What do you mean by Primary memory and secondary memory.

Mention example of each.