Roll No. .....

Z-14-B

Total No. of Questions : 31] [Total No. of Printed Pages : 4

11th ARF(SZ)JKUT2024-25

214-B

COMPUTER SCIENCE

Time : 3 Hours] **[Maximum Marks : 70**

Section-A

(Very Short Answer Type Questions) 1 each

1. The brain of Computer is :

   (A) CPU

   (B) ALU

   (C) Memory

   (D) None of these

2. Machine language is made up of binary bits 0 and 1. (True/False)

3. Which of the following represents tokens in Python ?

   (A) Operators

   (B) Punctuators

   (C) Both (A) and (B)

   (D) None of these

4. Define term portability of program.

5. 1 kilobyte is equal to ..... bytes.

6. Which of the following represents membership operator ?

   (A) not in

   (B) is

   (C) is not

   (D) None of these

7. Android is an example of :

   (A) Operating system

   (B) Application software

   (C) Both (A) and (B)

   (D) None of these

8. What is the use of lower( ) ?

9. Python language uses semicolon (;) to terminate statements. (True/False)

10. Define Data type in Python.

Section–B

(Short Answer Type Questions—I) 2 each

11. What is docstring in Python ?

12. Convert $(216)_{10}$ into binary equivalent.

13. What is syntax error ?

14. Convert $(11111001)_2$ to decimal number.

15. What is preventive maintonance ?

16. What is a lambda function ?

17. Explain characteristics of 2nd generation of computers.

18. What do you mean by Python character set ? Give example.

19. What is use of int( ) function in Python ?

Section–C

(Short Answer Type Questions—II) 3 each

20. What is need of an operating system ? Explain.

21. Using shortcut method, convert below mentioned hexadecimal numbers to binary equivalent number :

    (i) $(CDA)_{16}$

    (ii) $(ABF)_{16}$

22. Draw the block diagram of computer system and explain central processing unit.

23. Explain Identity Operators with an example.

24. Using shortcut method, convert below mentioned binary numbers to octal equivalent numbers :

    (i) $(11101110)_2$

    (ii) $(10111011)_2$

25. Define Memory. Explain various types of primary memories of a computer.

26. What are the rules for naming a variable ?

27. Write a program in Python to calculate area of a rectangle.

28. Describe some unique features of Python.

Section–D

(Long Answer Type Questions) 5 each

29. What is a String ? Explain with an example how to assign string to a variable and access its characters.

Or

What is purpose of using escape characters in strings ? Discuss some commonly used escape characters in Python.

30. Describe documentation. Explain its various types.

Or

Explain the concept of modular programming approach. What are its benefits ?

31. Define Software. Explain in detail application softwares.

Or

What is language processor ? Describe working of compiler and interpreter.