

Roll No.

Z-14-X

Total No. of Questions : 31]

[Total No. of Printed Pages : 4

11th ARM(SZ)JKUT2024

1214-X

COMPUTER SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

Section-A

(Very Short Answer Type Questions)

1 each

1. CPU stands for
2. Machine language is a language that uses mnemonic codes. (True/False)
3. Octal equivalent of decimal number 7 is
4. Write full form of PROM.
5. Which of the following represents application software ?
 - (A) MS Word
 - (B) MS Paint
 - (C) Both (A) and (B)
 - (D) None of these

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Turn Over

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6. Which of the following represents arithmetic operator ?
- (A) <
- (B) >
- (C) *
- (D) All of these
7. 1 Gigabyte is equal to _____ megabyte
8. What will be output of the following line
- `print (len('Computer Science'))` ?
9. Which of the following are not valid **string(s)** in Python ?
- (A) `""XyZ@123""`
- (B) `"XyZ@123"`
- (C) `'XyZ@123'`
- (D) None of these
10. Define Logical Operator

Section-B

(Short Answer Type Questions—I)

2 each

11. Define Cache Memory.

12. Convert $(136)_{10}$ into Octal number.
13. Define Documentation.
14. Convert $(42)_{10}$ to Binary number.
15. Define type conversion in Python.
16. Convert $(1101)_2$ into decimal number.
17. Write a program in Python to concatenate two strings.
18. What is run time error ?
19. What is the use of input () function in Python ?

Section-C

(Short Answer Type Questions—II)

3 each

20. Define the terms :
 - (i) Assembler
 - (ii) Interpreter
21. What are various types of Program Maintenance ? Explain
22. Name the various types of number systems. Convert $(CDA)_5$ into decimal number.
23. Explain membership operators with an example.
24. Explain the concept of modular programming approach.

25 Define a String. What are several ways to create a multiline string in Python ?

26 Define a Comment. Explain the various types of comments used in Python.

27 What is Datatype ? Explain Boolean datatype.

28 If a string in Python code is

Str = 'Good_morning' then give output of :

(a) Str[0 : 5]

(b) Str [5 :]

Section-D

(Long Answer Type Questions)

5 each

29 Explain in detail characteristics of 2nd and 3rd generations of Computers.

Or

Draw a Block diagram of a Computer System. Discuss the various functions of a Computer. <https://www.jkboseonline.com>

30 Define the term 'Software'. Discuss its various types.

Or

Explain the need and functions of an Operating System.

31 Define a Token. Explain various types of tokens used in Python.

Or

Discuss unique features of Python language.