

2024/TDC (CBCS)/EVEN/SEM/
CACSEC-401T/127

TDC (CBCS) Even Semester Exam., 2024

COMPUTER APPLICATION

(4th Semester)

Course No. : CACSEC-401T

(Programming with Python)

Full Marks : 35

Pass Marks : 14

Time : 3 hours

The figures in the margin indicate full marks
for the questions

UNIT—I

1. Answer any one of the following questions : 2
 - (a) What are different types of errors in programming?
 - (b) Why is documentation needed in programming? Give example.

2. Draw a flowchart to generate Fibonacci sequence. 5

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(Turn Over)

(2)

OR

3. Write short notes on the following : $2+1+2=5$
- (a) Structured programming
 - (b) Testing
 - (c) Top-down programming approach

UNIT—II

4. Answer any *one* of the following questions : 2
- (a) Write down the structure of a Python program.
 - (b) How are strings used in Python? Give example.

5. Write a Python program to convert Fahrenheit to Celsius. 5

OR

6. Define the following : $1 \times 5 = 5$
- (a) Python as calculator
 - (b) Identifiers and keywords
 - (c) Python interpreter
 - (d) Bitwise operator
 - (e) List concatenation

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(Continued)

(3)

UNIT—III

7. Answer any *one* of the following questions : 2
- (a) Write down the differences among break, continue and pass statements in Python.
 - (b) How are multiple assignments done in Python?

8. Write a Python program to check whether a particular number is prime or not. 5

OR

9. How are recursive functions implemented using stack? Explain with diagram.

UNIT—IV

10. Answer any *one* of the following questions : 2
- (a) Why is string called a compound data-type?
 - (b) How are nested lists defined? Give syntax.

11. How do you cutoff a string in Python? What are different string slice methods? Give example. $2+3=5$

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(Turn Over)

(4)

OR

12. Write a Python program to check whether a particular string is palindrome or not. 5

UNIT—V

13. Answer any *one* of the following questions : 2

(a) How are classes defined in Python? Give example.

(b) How are constructors used in Python? Give example.

14. How is binary search implemented in Python? Explain with Python code. 5

OR

15. Write a Python program to sort n element list using bubble sort technique.

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