

I PUC MID-TERM EXAMINATION, SEPT./OCT. - 2026

Time : 3 Hours

COMPUTER SCIENCE (41)

Max. Marks : 70

PART-A

I Answer ALL the questions. Each question carries ONE mark. 20x1=20

Select the correct answer from the given choices :

- 1) Which of the following is called as 'brain of the computer' ?
a) ALU b) CU c) Memory d) CPU
- 2) Following is not an output device.
a) Monitor b) Printer c) Scanner d) Speaker
- 3) The high-speed memory placed between CPU and primary memory is
a) RAM b) ROM c) Cache memory d) Hard disk
- 4) Set of instructions is called _____.
a) Data b) Information c) Program d) Hardware
- 5) GUI stands for
a) General user interface b) Graphical user interface
c) Google user interface d) Gesture user interface
- 6) Which is the first step in problem solving ?
a) Coding b) Testing c) Debugging d) Analysing the problem
- 7) Which symbol is used to show process in a flowchart ?
a) Circle b) Rectangle c) Oval d) Diamond
- 8) Syntax refers to
a) Meaning of code b) Output c) Rules of language d) Speed
- 9) Assertion (A) : Decomposition is divide and conquer
Reason (R) : Sub-problems cannot be solved independently
a) A is true, R is true b) A is true, R is false
c) A is false, R is true d) A is false, R is false
- 10) In python, writing all instructions by leaving uniform spaces to form a block is called
a) Alignment b) Grouping c) Segmentation d) Indentation
- 11) One loop inside another loop is called
a) Enclosed loop b) Nested loop c) Inner loop d) Sub loop
- 12) Which of the following is a valid python IF statement ?
a) if x == 5 : b) if (x = 5) : c) if x equals 5 d) if (x == 5)
- 13) What is a function in programming ?
a) A random set of instructions
b) A named group of instructions that solves a specific task
c) A mathematical equation
d) A comment in the code
- 14) What is an argument in Python ?
a) Value passed to the function during function definition
b) Value received by the function during its execution
c) Value passed to the function during the function call
d) Value returned by the function

(P.T.O)

- 15) What keyword is used to begin a function definition in Python ?
a) begin b) define c) def d) function

**II Fill in the blanks choosing the appropriate answer, given in the brackets below:
(float, variable, // , comment, list, in)**

- 16) _____ is a named memory location used to store data values.
17) In Python, the operator used for floor division is _____.
18) _____ are the non-executable statements in Python.
19) The membership operator used in Python is _____.
20) The sequence data type of python is _____.

PART-B

III Answer any FOUR questions. Each question carries TWO marks.

4x2=8

- 21) Name any two secondary storage devices.
22) Differentiate between Interpreter and compiler.
23) Mention any two advantages of algorithm.
24) What is an identifier ? Give an example.
25) What is immutable data type ? Give example.
26) What are global and local variables ?
27) Find the output of the following program segment

```
i = 1
while i <= 20 ;
    print (i)
    i = i + 1
```

PART-C

IV Answer any FOUR questions. Each question carries THREE marks.

4x3=12

- 28) Write a short note on microprocessor.
29) How do you classify programming languages ? Explain in brief.
30) Draw a flowchart to find the largest of three numbers.
31) Explain input () function with syntax and example.
32) Mention the different types of errors in python.
33) Explain if-else statement with syntax and example.
34) State any three advantages of function.

PART-D

V Answer any FOUR questions. Each question carries FIVE marks.

4x5=20

- 35) Explain the evolution of computers.
36) What is an operating system ? Explain any four functions of operating system.
37) Explain while loop with flow of control and example.
38) Define : (a) coding (b) Debugging (c) Testing (d) Pseudo-code (e) Time-complexity
39) Explain any five features of Python.
40) Explain arithmetic operators in Python with examples.
41) Explain for loop in python, with syntax and example

PART-E

VI Answer any TWO questions. Each question carries FIVE marks.

2x5=10

- 42) Write a Pseudo code to calculate the factorial of a number.
43) Write a Python program to calculate the simple interest and amount payable.
44) Write a Python program to find area and perimeter of a rectangle using user defined function.
