



C20-CM-WD-505

7639

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2024

DCME – FIFTH SEMESTER EXAMINATION

PYTHON PROGRAMMING

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define variables.
2. What is an operator?
3. Define break and assert.
4. What is range?
5. Define python package.
6. What are different python array methods?
7. Define cloning list.
8. What is mutability?
9. Define class.
10. Define exceptional handling.

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) What is python IDLE? Explain how to use IDE for writing and executing the program.

(OR)

(b) Explain declaration and initialization of variables.

12. (a) Explain continue and Write a python program to skip multiple elements using continue.

(OR)

(b) Explain various loop statements.

13. (a) Explain different types of arguments and write a python program by using variable lengthy argument.

(OR)

(b) Explain about different string modules.

14. (a) Write a python program to declare and print a list of English alphabets.

(OR)

(b) Compare list, tuple, dictionary and set.

15. (a) Explain about object with a python program.

(OR)

(b) What is data hiding? Explain with an example.

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Write a python program that accepts a string and calculate the number of digits and letters.

Sample data : Python 3.2

Expected output :

Letters 6

Digits 2

★★★