7321

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023
DAIM – THIRD 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. List Python features.

2. State the process of running python scripts.

3. Write about break and continue statements.

4. Write a Python program using if-else statement.

5. What is list slicing?

6. Define a Tuple.

7. What is a default argument?

8. What is Anonymous function? Give an example.

9. How to create a constructor in Python?

10. What is exception 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)* Write in brief about the applications of Python.

(OR)

(b) Explain about assignment and logical operators with an example program.

12. *(a)* Explain different data types in Python.

(OR)

(b) Explain about While loop in Python with an example program and flowchart.

13. *(a)* Explain about dictionary creation and comprehension with an example program.

(OR)

(b) Explain about different set operations with example programs.

14. *(a)* What is a function? Explain about calling functions and passing arguments with an example program in Python.

(OR)

(b) Discuss in detail about installing packages via PIP.

15. *(a)* Differentiate method overloading and method overriding.

(OR)

(b) Explain file operations.

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 counts the number of occurrences of a letter in a string, using dictionaries.

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