

B.Sc. Sem.-6 Examination**309 - Computer Science****Python Program****Time : 2-30 Hours]****October - 2025****[Max. Marks : 70****Instructions :** (1) Figures to the right indicate Full Marks.

(2) All questions are compulsory.

1 Answer the following questions.

(a) Explain python string function in detail with suitable example. 7

(b) Explain in detail basic elements of python 7

OR

1 (a) Explain in detail about control statements in python with proper syntax and example. 7

(b) Describe loops in python with syntax and example. 7

2 Answer the following questions :

(a) Explain in detail about global and local variable in python with example. 7

(b) Discuss in detail functions in python 7

OR

2 (a) Explain Recursion and Modules in python. 7

(b) Explain Lamba, Apply, Filter, Map and reduce filter in python with example. 7

3 Answer the following questions.

(a) Describe in detail about various types of Testing. 7

(b) Explain Tuples, set and Dictionary Datatype in python with example. 7

OR

3 (a) How exceptions are handled in python explain it with suitable example. 7

(b) Explain in detail about list Datatyped in python with in-built property and example. 7

4 Answer the following questions.

(a) Explain in detail about different charts/plots in python with example. 7

(b) Explain Encrytion and Decryption in python with example. 7

OR

4 (a) Discuss in detail Abstract Data Type and classes in python. 7

(b) Explain types of Inheritance in python with suitable example. 7

5 Multiple choice questions. 14

(1) Who developed python programming Language?

(a) Wick van Rasmus (b) Rosmus lerdorf (c) Guido van Rossum (d) Niene stom

(2) Which type of programming does python support?

(a) Object-oriented (b) Structured (c) Functional (d) All of above

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- (3) Which of the following is correct extension of python file?
(a) . Python (b) . PC (c) . PY (d) . P
- (4) All keywords in python are in
(a) Capitalized (b) Lower case (c) Upper case (d) None
- (5) What will be value of following python expression? $4 + 3\% 5$
(a) 7 (b) 2 (c) 4 (d) 1
- (6) Which keyword is used for function in python language?
(a) Function (b) Def (c) Fun (d) Define
- (7) Which character is used to give single-line comments in python?
(a) || (b) # (c) ! (d) /*
- (8) What will be output of following code snippet if $x = 1$? $x \ll 2$
(a) 4 (b) 2 (c) 1 (d) 8
- (9) What does pip stand for python?
(a) Pip install python (b) Pip install packages (c) Preferred installer program (d) None
- (10) Which of following is truncation division operator in python?
(a) 1 (b) // (c) / (d) %
- (11) Which function is a built-in function in python?
(a) Print () (b) functional () (c) Seed () (d) Sqrt ()
- (12) What will be output of following python function? `Min (max (False, -3, -4), 2, 7)`
(a) -4 (b) -3 (c) 2 (d) false
- (13) Which of following is not a core data type in python programming?
(a) Tuples (b) Lists (c) Class (d) Dictionary
- (14) What will be output of following python function? `/en (["hello", 2, 4, 6])`
(a) Error (b) 6 (c) 4 (d) 3.
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