



QUESTIONS

UNIT-I

- 1 Write in brief about identifiers in python.
- 2 What are python objects?
- 3 List the applications of python.
- 4 Define sequences.
- 5 Write about arithmetic and logical operators.
- 6 List the unsupported types in python.
- 7 What is type casting?
- 8 List various internal types in python.
- 9 Define list and tuple.
- 10 Define dictionary and set.
- 11 a) What is python? Explain the features of python.
b) Discuss about.
 - (i) How to write comments in python script.
 - (ii) The rules for selecting an identifier name
- 12 a) Discuss how memory management is done in python
b) List and explain the standard types and other built-in types in python.
- 13 a) Discuss about various internal types in python.
b) Discuss the categorization of standard types in python.
- 14 a) List the various standard types and unsupported types in python.
b) Explain how to create, access and delete the strings with examples.
- 15 a) What is a string? Explain the operators of strings.
b) Write about different built-in functions of lists and tuples.
- 16 a) Discuss about any ten built-in methods of strings with example.
b) Write a python program to count the total number of vowels, consonants, white spaces and special symbols in a user entered string.
- 17 a) Explain about the following built-in methods of dictionary.
 - (i) fromkeys ()
 - (ii) update ()
 - (iii) keys ()
 - (iv) values ()
 - (v) clear ()
 - (vi) copy ()
b) Explain about various operators and functions of sets.

UNIT-II

- 1 What are built-in functions for files?
- 2 Define the file system of python.
- 3 What are file built-in-attributes?
- 4 What are standard files?
- 5 List some of the modules related to files.
- 6 Define try-finally statement.
- 7 What is a module in python?
- 8 What are the different accessing methods for files.
- 9 How to import a module in python?
- 10 Discuss about namespaces.
- 11 a) Explain about built-in function [open ()] and Access modes for file objects.
b) Explain the built-in methods and attributes of files in python.
- 12 a) Explain the file processing methods and directory methods in file system of python
b) Explain about the command line arguments in python.
- 13 a) Write a program to print the sum of two numbers using command line arguments.
b) Explain about detecting and handling exceptions?
- 14 a) List and explain the various standard exceptions in python.
b) Explain try_except_finally statement with an example.
- 15 a) Explain how to raise exceptions in python with an example.
b) Explain about assertions in python.
- 16 a) What is module and explain how to modules are imported in python.
b) Discuss about the namespaces in python.

UNIT-III

- 1 Define regular expressions.
- 2 List out various Regular expression symbols.
- 3 List out various Regular expressions special characters.
- 4 List the Re module functions.
- 5 Write a regular expression pattern to match the following strings: "bat," "bit," "but," "hat," "hit," or "hut."
- 6 What is multithreaded programming?
- 7 What are processes?
- 8 What are threads?
- 9 What is GIL?
- 10 How to access threads from python.
- 11 a) Explain the various common regular expression symbols with an example.
b) Explain the functionality of the following functions in Regular expressions.
 - (i) finditer()
 - (ii) findall()
 - (iii) group()
 - (iv) groups()

12 a) Explain the regular expression special characters with an example.
b) Write a Python program that checks whether a word starts and ends with a vowel in a given string. Return true if a word matches the condition; otherwise, return false.

("Red Orange White") -> True

("Red White Black") -> False

("abcd dkise eosksu") -> True

13 a) Explain the functionality of the following functions in Regular expressions.

(i) search ()

(ii) match ()

(iii) sub ()

(iv) split ()

b) Write a Python program to replace whitespaces with an underscore and vice versa using regular expressions.

14 a) Explain about tHRead module in detail.

b) Write a program to demonstrate multithreaded mechanism provided by thread module in python.

15 a) Explain about tHReading module in detail.

b) Write a program to demonstrate multithreaded mechanism provided by threading module in python.

16 a) How threads are accessed from python? Explain how life is without threads.

b) Write short notes on global interpreter lock. How do threads exit?

UNIT-IV

1 Define database.

2 What is database schema?

3 Explain about CREATE and USE SQL commands.

4 Explain about DROP and INSERT SQL commands.

5 Explain about DELETE and UPDATE SQL commands.

6 Define ORM.

7 List the various relational databases.

8 List the various connection objects.

9 Explain syntax of connect () function.

10 Differentiate execute () and executemany ()

Part – B (Long Answer Questions)

11 a) Explain the CRUD operations in SQL.

b) Explain in detail about database application programmers' interface (DB-API).

12 a) Discuss about the cursor objects in python DB-API.

b) Discuss about the Connection objects in python DB-API.

13 a) Discuss about object relation managers (ORMs).

b) Explain about type objects and constructors in python DB-API.

14 a) Describe in detail about python SQL Alchemy ORM with a case study of Employee role database.

b) Write short notes on DB-API Exception Classes.

15 a) Explain about the MySQL Python adapter: MySQLdb with an example.

b) Explain how to create a database table and insert the data into that using MySQLdb with a suitable example.

16 a) Explain about the MySQL Python adapter: mysql.connector with an example.

b) Explain how to create a database table and insert the data into that using mysql.connector with a suitable example.

UNIT-V

1 What is GUI?

2 List out the widgets of Tk.

3 Write short notes on python mega widgets.

4 Write short notes on GTK+ .

5 Write short notes on pyGTK.

6 Define urlopen() and urlretrive().

7 What is urllib2 module?

8 Define CGI.

9 Describe types of handlers in python.

10 What is an URL?

11 a) Explain briefly about GUI programming. Write how Tk is added to the applications.

b) Explain about Radio button widget in tkinter. How to create two radio button sets (one for gender and another for Indian or not) on the same canvas.

12 a) Define top-level window (Tkinter.Tk()) and list out the widgets of Tk.

b) Discuss about radio button widget and check button widget with example.

13 a) Discuss about Tk interface extensions (Tix).

b) Write a Python program that creates a GUI with a textbox, Ok button and Quit button.

14 a) What is an URL? Write about urlparse module.

b) Explain about urllib module.

15 a) Explain about urllib2 module.

b) Explain in detail about CGI.

16 a) Explain about the following

(i) cookies

(ii) Using advanced CGI

b) Discuss about web (HTTP) servers.

*** Blooms Taxonomy Level (BT) (L1 – Remembering; L2 – Understanding; L3 – Applying; L4 – Analyzing; L5 – Evaluating; L6 – Creating)**

Course Outcomes (CO)

Program Outcomes (PO)