



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 urlretrieve().
 - 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)