R18

[10]

Code No: 157EY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, January/February - 2023 PYTHON PROGRAMMING

(Common to CE, ME, ECE, EIE, MCT)

Time	e: 3 Hours	Max.Marks:75
Note	: i) Question paper consists of Part A, Part B.	
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.		
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks		
	and may have a, b as sub questions.	
	PART - A	
		(25 Marks)
1.a)	How does a computer run a python program?	[2]
b)	Explain Running python commands using the REPL.	[3]
c)	What is the sys module in Python?	[2]
d)	What is file object attribute in Python? Explain.	[3]
e)	What are regular expressions in Python?	[2]
f)	Explain the special symbols in Python.	[3]
g)	How to make a web browser in Python?	[2]
h)	Discuss the Web (HTTP) Servers.	[3]
i)	Which database is best for Python programming?	[2]
j)	Which is the best ORM for Python?	[3]
	PART – B	
	PART - B	(50 Marks)
2.a)	what is Python? Explain the history of Python.	
b)	Explain the Standard Type Built-in Functions.	[5+5]
	OR	
3.a)	Discuss Python Objects in detail.	
b)	List and explain the Other Built-in Types.	[5+5]
4.	Explain the Detecting and Handling of Exceptions.	[10]
	OR	
5.a)	What type of object are SYS modules? Explain.	U
b)	Describe the Exceptions and the sys Module.	[5+5]
6	Discuss the Thread Module and Threading Module	[10]

OR

Explain how the global interpreter lock works.

7.

8. Write a Python program that creates a GUI with a textbox, Ok button, and Quit button. On clicking Ok, the text entered in the textbox is to be printed in Python shell; on clicking Quit, the program should terminate. [10]

OR

9. Explain the reusable GUI components with classes. [10]

10.a) Give the differences between database programming and distributed database Programming.

b) How many modules are there in Python? Explain. [5+5]

OR

11. Explain the Object Relational Managers (ORMs). [10]

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March - 2022 PYTHON PROGRAMMING

(Common to CE, ME, ECE, EIE, MMT)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

- - -

- 1.a) Does Python support multiple assignment? Justify your answer.
 - b) List the basic style guidelines of Python.

[7+8]

- 2.a) Discuss about complex numbers and operators for them.
 - b) With the help of a flowchart discuss numeric coercion rules.

[8+7]

- 3. Write a program to append the content of the first file to the second file. Read the file names as command line arguments. [15]
- 4.a) How to handle Zero Division Error? Explain with suitable code.
 - b) What is a namespace? Compare it with variable scope, packages.

[7+8]

- 5. Illustrate common regular expression symbols and special characters used in Python for string matching. [15]
- 6.a) How to access threads from Python?
 - b) What is reentrant lock object? Discuss its use in a program.

[7+8]

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- 7. Write Python script to perform authentication for HTTP client request and explain working of your script. [15]
- 8. Write a Python program to access the bill details of a customer by accepting customer ID from user. Database table will have customer bill details along with customer ID. [15]

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Code No: 157EY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, July/August - 2022 PYTHON PROGRAMMING

(Common to CE, EEE, ME, ECE, EIE, MMT)

Time: 3 Hours

Max.Marks:75

Answer any five questions All questions carry equal marks

- - -

- 1.a) Describe the important features of Python.
 - b) With examples illustrate augmented assignment and multiple assignment operators.[7+8]
- 2.a) How does garbage collector work in Python?
 - b) Differentiate between lists and tuples.
 - c) How to unify integers and long integers?

[5+5+5]

- 3.a) Illustrate the following file methods: readline, readlines, tell, seek.
 - b) Write a program to append the content of first file to second file. Read two file names as command line arguments. [7+8]
- 4.a) How can programmers create their own exception classes in Python? Give example.
 - b) What is a python module? Compare with functions.
 - c) How do namespaces relate to variable scope?

[5+5+5]

- 5.a) Does regular expression pattern enable matching of multiple strings? Justify your answer with illustrations.
 - b) Describe the core functions and methods of re module of Python.

[8+7]

- 6.a) Differentiate between process and thread. How to access threads from Python?
 - b) Write a program to develop a multithreaded application using standard library modules related to threading. [7+8]
- 7.a) Discuss any eight Tk widgets used in GUI programming.
 - b) What is a web crawler? Write Python code for a web crawler.

[7+8]

- 8.a) Illustrate the use of DB-API module attributes.
 - b) Make a comparison of the two well-known Python object relational managers SQLAlchemy and SQLObject. [7+8]