R18

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: 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

(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.	
b)	Describe the Exceptions and the sys Module.	[5+5]
6.	Discuss the Thread Module and Threading Module.	[10]
	OR	
7.	Explain how the global interpreter lock works.	[10]

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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