



II B.Tech I Sem Regular End Examination, February-2022

**Python Programming**  
**(CSC, CSD, CSE, CSI, CSM, IT & MECH)**

**Max. Marks: 70**

- Note: 1. Question paper consists: Part-A and Part-B.  
 2. In Part - A, answer all questions which carries 20 marks.  
 3. 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**

**(10\*2 Marks = 20 Marks)**

- |       |   |    |     |   |
|-------|---|----|-----|---|
| 1. a) | What is Python?   | 2M | CO1 | 1 |
| b)    | What are the three characteristics of Python Object?  | 2M | CO1 | 2 |
| c)    | Give the difference between mutable and immutable sets? How to create them?                 | 2M | CO2 | 4 |
| d)    | What constitutes valid dictionary keys? Give examples of valid and invalid dictionary keys. | 2M | CO2 | 3 |
| e)    | Distinguish among readline, readlines and xreadlines methods of files?                      | 2M | CO3 | 4 |
| f)    | Prompt for a number N and file F, and display the first N lines of F.                       | 2M | CO3 | 3 |
| g)    | Distinguish between threads and processes?  | 2M | CO4 | 4 |
| h)    | Elaborate the keyword(s) which is(are) used to raise exceptions.                            | 2M | CO4 | 2 |
| i)    | List out the five main steps that are required to get your GUI up and running?              | 2M | CO5 | 2 |
| j)    | What is multithreading?   | 2M | CO5 | 2 |

**PART- B**

**(10\*5 Marks = 50 Marks)**

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|-------|--|----|-----|---|
| 2. a) | Describe the other Built-in Types in Python?   | 5M | CO1 | 2 |
| b)    | How would you classify division operation into classic division, true division and floor division? | 5M | CO1 | 4 |

**OR**

- |   |  |     |     |   |
|---|--|-----|-----|---|
| 3 | Discuss the standard types in python and Categorizing of the Standard Types? | 10M | CO1 | 4 |
|---|--|-----|-----|---|

- |       |   |    |     |   |
|-------|---|----|-----|---|
| 4. a) | How would you create, access, update and delete elements of dictionary?                     | 5M | CO2 | 3 |
| b)    | With example discuss the working of sorted( ), reversed( ), enumerate( ) functions on lists | 5M | CO2 | 3 |

**OR**

5	Write python script that uses lists as a <i>stack</i> and <i>queue</i> to store and retrieve strings entered through menu-driven text application using only the <code>append()</code> and <code>pop()</code> list methods.	10M	C02	4
6	a) Describe the various modules used for persistent storage? Develop a Python script that prompt for two filenames using command-line arguments. Then contents of the first file should be copied to the second file.	5M	C03	3
	b) command-line arguments. Then contents of the first file should be copied to the second file.	5M	C03	6
<b>OR</b>				
7	Consider a file <code>users.txt</code> consisting of usernames and passwords of all registered users. Develop a python script with two functions <code>newuser()</code> which adds new users such that new users cannot create an entry with someone else's username and <code>olduser()</code> which reads username, password and authenticates against the data in <code>users.txt</code> then displays whether the user is authentic or not?	10M	C03	6
8	a) Discuss and compare the different ways to import a module?	5M	C04	3
	b) Explain try-except-else-finally statement with example program?	5M	C04	4
<b>OR</b>				
9	Describe any two ways used to create threads using the Thread class.	10M	C04	3
10	a) Write a python program using Label, Button, and Scale Widgets?	5M	C05	4
	b) Compare and Contrast the functions <code>match</code> , <code>search</code> and <code>group</code> , <code>groups</code> ?	5M	C05	4
<b>OR</b>				
11	Explain about Thread module and Threading Module.	10M	C05	3

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