

**Roll No.**

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**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Tech. (CSE) (Sem.-5)**  
**PROGRAMMING IN PYTHON**

**Subject Code : BTCS-510-18**

**M.Code : 78324**

**Date of Examination : 27-01-2023**

**Time : 3 Hrs.**

**Max. Marks : 60**

### INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

## SECTION-A

**1. Write briefly :**

- a) Discuss briefly about `dir()` and `help()` functions.
- b) Differentiate between an error and an exception.
- c) What is persistent storage?
- d) Explain briefly about modulus.
- e) Write a short note on global interpreter lock.
- f) What are regular expressions?
- g) Explain briefly about web surfing.
- h) Describe the relationship between child and parent windows.
- i) Write a short note on application programmer's interface (DB-API).
- j) Write a SQL command to create a table with three fields of different types.

## SECTION-B

2. Differentiate between Lists and Tuples with the help of an example.
3. What are command-line arguments? Explain clearly the difference between 'argc' and 'argv' arguments.
4. What is pattern-matching? Describe two ways to accomplish pattern-matching.
5. Write a short note on Tkinter, Pmw and Tix GUI highlighting the difference among them.
6. What are adapters in databases? Discuss various factors to be considered while choosing an adapter.

## SECTION-C

7. What is Common Gateway Interface (CGI)? Explain in detail about the working of CGI with the help of an example.
8. What are hash tables and how do they relate to dictionaries? Also explain how are the elements inserted, updated and removed from dictionaries.
9. Describe the process of exception detection and handling in detail with the help of an example. What role does assertion play in exception handling?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**