

[25]



SARDAR PATEL UNIVERSITY  
 External Examination (CBCS)  
 B. Sc. VI<sup>th</sup> – Semester (CBCS) – Computer Science  
 US06CCSC23: Python Programming  
 Saturday, 25<sup>th</sup> June 2022

Time: 10.00am to 12.00pm

Total Marks: 70

Q-1 Select an appropriate option.

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1. What data type is the object below?  
`L = [11, 50, 'RAM', 20]`  
 (a) list (b) dictionary (c) array (d) tuple
2. What is the maximum possible length of an identifier?  
 (a) 16 (b) 32 (c) 64 (d) None of these above
3. Which character is used in Python to make a single line comment?  
 (a) /\* (b) // (c) # (d) \*
4. What is the output when following code will be executed?  
`str='Recurssion'`  
`print(str.rfind('s'))`  
 (a) 5 (b) 6 (c) 4 (d) 2
5. What will following Python code return?  
`str1="Stack of books"`  
`print(len(str1))`  
 (a) 13 (b) 14 (c) 15 (d) 16
6. What will be the output of below Python code?  
`str1="poWer"`  
`str1.upper()`  
`print(str1)`  
 (a) POWER (b) Power (c) power (d) poWer
7. To read the entire remaining contents of the file as a string from a file object `infile`, we use \_\_\_\_\_.  
 (a) `infile.read(2)` (b) `infile.read()`  
 (c) `infile.readline()` (d) `infile.readlines()`
8. Which of the following commands can be used to read "n" number of characters from a file using the file object `<file>`?  
 (a) `file.read(n)` (b) `n = file.read()` (c) `file.readline(n)` (d) `file.readlines()`
9. Which statement is used to read the values from the database?  
 (a) Insert (b) Select (c) Delete (d) None of these
10. Which method is used to fetch only one row from the table?  
 (a) `fetchone()` (b) `fetchall()` (c) `fetch()` (d) None of these

Q-2 Fill in the Blanks / True or False

08

1. Mathematical operations can be performed on a string. (True / False)
2. The expression `Int(x)` implies that the variable `x` is converted to integer. (True / False)
3. `capitalize()` function in string is used to return a string by converting the whole given string into uppercase. (True / False)
4. A recursive function is a function which calls itself. (True / False)
5. The `readlines()` method returns \_\_\_\_\_.
6. The extension of CSV file is \_\_\_\_\_.
7. SQL stands for \_\_\_\_\_.
8. \_\_\_\_\_ function is used to close the database.

Q-3 Answer the following questions. (Attempt any **TEN**)

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1. What is Python?
2. Explain how to write comment in Python program with example.
3. What is the difference between list and tuples in Python?
4. What do you know about string `swapcase()` function?
5. Describe `count()` method of tuple with example.
6. Explain repetition of string.
7. What is Regular Expression?
8. Describe appending row in CSV file with example.
9. Explain `findall()` and `split()` function.
10. Explain how to create new database with example
11. Explain `fetchall()` method with example.
12. Explain the delete operation on table.

Q-4 Answer the following questions. (Attempt any **FOUR**)

32

1. Explain features of python in detail.
2. Explain `If`, `If...Else` and `if ... elif ... else` statements with example.
3. Describe `append`, `update` and `delete` in list with example.
4. Describe different tuple methods with proper example.
5. Explain reading and writing CSV files.
6. Explain writing dictionary into CSV file with example.
7. Explain how to create cursor with example.
8. Explain the `join` operation in detail.

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