



विद्या सर्वार्थ साधिका

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PERIODIC TEST -1
Class : XII

Subject: Computer Science.
Date :18-07-2022

MM :40
Time: 2 Hours.

General Instructions:

1. There are 17 questions in this question paper. All questions are compulsory.
2. This question paper has four sections : Section-A, Section-B, Section-C and Section-D.
3. Section A - Q. No. 1 to 5 are objective type questions and carry 1 mark each.
4. Section B - Q. No. 6 to 10 are short answer questions and carry 2 mark each.
5. Section C - Q. No. 11 to 15 are also short answer questions and carry 3 marks each.
6. Section D - Q. No. 16 and 17 are long answer question and carry 5 marks.

SECTION A

1. What will be output of the following code? (1)
def fn(x):
 try:
 print(5/x)
 except ZeroDivisionError:
 print("Except Block")
 else:
 print("Except Block")
 finally:
 print("Finally Block")
fn(0)
2. Which Keyword is used to raise an error in Python? (1)
3. Which modes are valid for opening a file to read and write? (1)
4. What does the following statement do ? (1)
F=open("c:\\MyFile.txt", "w+")
5. What does the following code do ? (1)
f=open("c:\\MyFile.txt")
C=f.read()

SECTION B

6. Is it possible to raise an exception manually? If yes, explain how. (2)
7. What is Exception?, What do you understand by Exception? Explain IndexError in Python (2)
8. What is the difference between "W" and "A" modes? (2)
9. What role is played by file modes in the file operations? Describe the various file mode constants and their meanings. (2)
10. Write statement(s) , that opens a binary file record.bin in write mode and writes data from a list lst1 = [1,2,3,4] on the binary file? (2)

SECTION C

11. What is absolute path and relative path? Explain with the help of example. (3)
12. What is the difference between read() and readline() function of file? Explain with the help of example. (3)
13. What is the difference between readline() and readlines() function? Explain with the help of example. (3)
14. Suppose content of 'Myfile.txt' is Honesty is the best policy (3)
What will be the output of the following code?

```
myfile = open("Myfile.txt")  
x = myfile.read()  
y = x.count('the')  
record = myfile.read().split()  
print(len(record))  
print(y)  
myfile.close()
```
15. Raghav is trying to write a tuple tup1 = (1,2,3,4,5) on a binary file test.bin. Consider the following code written by him and answer the questions given below. (3)
- ```
import pickle
tup1 = (1,2,3,4,5)
myfile = open("test.bin",'wb')
pickle._____ #Statement 1
myfile.close()
```
1. What will happen if file test.bin is already available in the system?
  2. Write appropriate statement for statement 1 to write tuple tup1 in the file.
  3. What is the location of the file test.bin ?

### SECTION D

16. Write a function AMCount() in Python, which should read each character of a text file STORY.TXT, should count and display the occurrence of alphabets A and M (including small cases a and m too). (5)  
For Example: If the file content is as follows:  
Updated information As simplified by official websites.  
The AMCount() function should display the output as:  
A or a:4  
M or m :2
17. A binary file "Book.dat" has structure [BookNo, Book\_Name, Author, Price]. (5)
- i. Write a user defined function createFile() to input data for a record and add to Book.dat.
  - ii. Write a function countRec(Author) in Python which accepts the Author name as parameter and count and return number of books by the given Author, Information of books are stored in the binary file "Book.dat".