



विद्या सर्वार्थ साधिका

**ANANDALAYA**  
**PERIODIC TEST -1**  
Class : XII

Subject: Computer Science (083)  
Date :19-07-2023

MM :40  
Time: 1 Hr 30 min

**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. Consider the given code and fill in the blanks: (1)  
try:  
    X = int(input("enter a number"))  
except \_\_\_\_\_:  
    print("please enter only numbers")  
else:  
    print("Squere =",X\*X)  
(A) IOError (B) ValueError (C) ZeroDivisionError (D) TypeError
2. What will be output for the following code? (1)  
try:  
    print(x)  
except:  
    print("An exception occurred")  
(A) X (B) Error (C) An exception occurred (D) None of the above
3. Which modes are valid for opening a file to read and write simultaneously? (1)
4. When trying to open a file in Python, I get the error "FileNotFoundError: [Errno 2] No such file or directory". What could be the cause of this issue? (1)
5. Differentiate between 'write' and 'append' mode. (1)

**SECTION B**

6. When will the else part of try-except-else be executed? (2)
7. What is Exception? Which of the following block will be executed weather an exception is thrown or not? (2)  
(A) except (B) else (C) finally (D) assert
8. What is a default mode in file open function when no mode is specified? (2)
9. Is it possible to open multiple files using Python? If yes, then how? (2)
10. Write two functions that are used to write data into file. (2)

### SECTION C

11. Write statement(s), that opens a binary file “Books.dat” in write mode and writes data from a list Books = [1, “Mathematics”, “R.L.Arora”, 295] on the binary file? (3)
12. What is the difference between read() and readline() function of file? Explain with the help of an example. (3)
13. While working with files in python , What is the best way to extract all lines that start with a particular letter? (3)
14. A list, NList contains following record as list elements: [City, Country, distance from Delhi] Each of these records are nested together to form a nested list. Write the following user defined functions in Python to perform the specified operations on the stack named travel. (3)
- (i) **Push\_element(NList):** It takes the nested list as an argument and pushes a list object containing name of the city and country, which are not in India and distance is less than 3500 km from Delhi.
  - (ii) **Pop\_element():** It pops the objects from the stack and displays them. Also, the function should display “Stack Empty” when there are no elements in the stack.
15. Raghav is trying to write a List l1 = [1, 2, 3, 4, 5] on a binary file Data.bin. Consider the following code written by him and answer the questions given below. (3)
- ```
import pickle
l1 = [1,2,3,4,5]
myfile = open("Data.bin",'wb')
pickle._____ #Statement 1
myfile.close()
```
- 1. What will happen if file Data.bin is already available in the system?
  - 2. Write appropriate statement for statement 1 to write List l1 in the file.
  - 3. What is the location of the file Data.bin?

### SECTION D

16. Write a function in Python that reads a text file, “Doc.txt” and displays those lines which begin with the word ‘You’. (5)

**OR**

Write a function, DispVowelCount() in Python that counts and displays the number of vowels in the text file named Story.txt.

17. A binary file "Sports.dat" has structure [St\_Id, St\_Name, Game\_Name, Result]. (5)
- i. Write a user defined function createFile() to input data for a record and add to Sports.dat.
  - ii. Write a function countRec(Name) in Python which accepts the Student name as parameter and count and return number of games by the student have taken part, Information of participation is stored in the binary file "Sports.dat".