

# RAVI MATHS TUITION & TEST PAPERS , WHATSAPP 8056206308

## 3 File Handling

### 12th Standard

### Computer Science

#### Multiple Choice Question

5 x 1 = 5

- 1) To open a file c:\scores.txt for reading, we use
  - (a) infile = open(" c:\scores.txt", "r")
  - (b) infile = open("c:\\scores.txt", "r")
  - (c) infile = open(file = "c:\scores.txt", "r")
  - (d) infile = open(file = "c:\\scores.txt", "r")
- 2) Which of the following statements are true?
  - (a) When you open a file for reading, if the file does not exist, an error occurs
  - (b) When you open a file for writing, if the file does not exist, a new file is created
  - (c) When you open a file for writing, if the file exists, the existing file is overwritten with the new file
  - (d) All of the mentioned
- 3) To read two characters from a file object infile, we use \_\_\_\_\_.
  - (a) infile.read(2)
  - (b) infile.read()
  - (c) infile.readline()
  - (d) infile.readlines()
- 4) 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()
- 5) What will be the output of the following Python code?

```
f = None
for i in range (5):
with open("data.txt", "w") as f:
if i > 2:
break
print(f.closed)
```

  - (a) true
  - (b) false
  - (c) none
  - (d) error

#### 2 Marks

37 x 2 = 74

- 6) Write a function in Python to count the number of lines in a text file 'STORY.TXT' which is starting with an alphabet 'X'.  
OR  
Write a method/function DISPLAYWORDS() in Python to read lines from a text file STORY.TXT, and display those words, which are less than 4 characters.
- 7) Write a method in Python to read lines from a text file DIARY.TXT, and display those lines, which are starting with an alphabet 'P'.
- 8) Write a method in Python to read lines from a text file MYNOTE'S.TXT, and display those lines, which are starting with the alphabet 'K'.
- 9) Given a text file car.txt following information of cars carNo, carname, containing mileage. Write a Python function to display details of all those cars whose mileage is from 100 to 150.
- 10) Write a program to accept a filename from the user and display all the lines from the file which contain Python comment character '#'.
- 11) Write a try except statement that attempts to open a file for reading and catches the exception thrown when the file does not exist.
- 12) What are readline() and readlines() functions?
- 13) What is the use of flush() function?

- 14) What is a delimited text file?
- 15) Write a method in Python to write multiple lines of text contents into a text file, "MYFILE.TXT" line.
- 16) Write a method in Python to write multiple lines of text contents into a text file diary. txt.
- 17) Write a function CountHisHer() in Python which reads the contents of a text file "Story.txt" and counts the words His and Her (not case sensitive).
- 18) Write a function to count the number of lines starting with a digit in a text file "Diary.txt".
- 19) Write a function to read the content of a text file "DELHI.txt" and display all those lines on screen, which are either starting with 'D' or 'M'.
- 20) Write a function to count the number of lines starting with uppercase characters in a text file "Help.doc".
- 21) Write a function to count the number of alphabets present in a text file "NOTES.txt".
- 22) A text file "PARA.txt" contains a paragraph. Write a function that searches for a given character and reports the number of occurrence of the character in the file.
- 23) Write a function in Python to count the number of blank spaces in a text file names "STORY.txt".
- 24) Write a function in Python to count the number of lowercase and uppercase characters in a text file "Book.txt",
- 25) Write a program to print following type of statistics for the given file:  
16824lines in the file  
483 empty lines  
53.7 average characters per line  
65.9 average characters per non-empty line.
- 26) Write a program that reads a text file and then creates a new file where each character's case is inverted.
- 27) Write a program that checks to see if the file name exists, it will give you an error message, if not, it will create the file.
- 28) Write a function to split a path completely into directory names.
- 29) Write statements to display the position of the file pointer after reading two lines from a file linked to file object named fn.
- 30) Write a single loop to display all the contents of a text file c:\poem.txt after removing leading and trailing white spaces.
- 31) Write a function stats () that accepts a filename and reports the file's longest line
- 32) What is the output of the following code? Explain.  
> > > out = file ("output.txt",'w')  
> > > out.write ("Hello,world!\n")  
> > > out. write ("How are you ?")  
> > > out.close ()  
» > file("output.txt").read()
- 33) Write a program to count the number of upper case letters in a text file "Article.txt".
- 34) A text file "Quotes.Txt" has the following data written in it:  
Living a life you can be proud of  
Doing your best  
Spending your time with people and activities that ase important to you  
Standing up for things that are right even when it's hard  
Becoming the best version of you  
Write a user defined function to display the total number of words present in the file.
- 35) Write a program to search the name and address of person having age more than 30 in the data list of person.

- 36) Write a code to open a file readme.txt and print all its contents. Report an error if the file doesn't exists.
- 37) What is the purpose of seek() function?
- 38) What is the use of tell() function?
- 39) Write any two needs for a data file.
- 40) Define CSV files.
- 41) Differentiate between a Text File and a Binary File.
- 42) Differentiate between a Text File and a Binary File

3 Marks

10 x 3 = 30

- 43) Given a pickled log.dat file, containing list of strings. Write a python function that reads the file and looks for a line of the form  
Xerror: 0.2395  
whenever such line is encountered, extract the floating point value and compute the total of these error values. When you reach end of file print total number of such error lines and average of error value.
- 44) Write a program to use pickle module for reading and writing binary files.
- 45) Write a function to write numbers into a binary file and read the same
- 46) A file sports.dat contains information in following format Event Participant.  
Write a function that would read contents from file sports.dat and creates a file named Athletics. dat copying only those records from sports.dat where the event name is "Athletics"
- 47) Create file phonebook.dat that stores the details in following format:  
Name Phone  
Jivin 86666000  
Kriti 1010101  
Obtain the details from the user.
- 48) A file phonebook.dat stores the details in the following format:  
Name Phone  
Jivin 86666000  
Kriti 101001  
Write a program to edit the phone numbers of "Arvind" in file. If there is no record for "Arvind" report error.
- 49) Write a function to create a text file containing following data:  
Neither apple nor pine are in pineapple. Boxing rings are square.  
Writers write, but fingers don't fing. Overlook and oversee are opposites. A house can burn up as it burns down. An alarm goes off by going on.  
(i) Read back the entire file content using read() or readlines() and display on the screen.  
(ii) Append more text of your choice in the file and display the content of file with line numbers prefixed to line.  
(iii) Display last line of file.  
(iv) Display first line from 10th character onwards  
(v) Read and display a line from the file. Ask user to provide the line number to be read.
- 50) Write a function CountYouMe() in Python which reads the contents of a text file Notes. txt and counts the words You and Me (not case sensitive).
- 51) Explain Reading CSV files with CSV.
- 52) Write the optional Python CSV reader parameters.

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