QUESTION BANK OF MULTIPLE-CHOICE QUESTIONS 2021-22

CLASS XII  SUBJECT **COMPUTER SCIENCE**

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10. Mr ANAND GANESH, KV NO2 GOLKONDA
STUDY MATERIAL PREPARATION

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<tr>
<td>1</td>
<td>Mr PRABODH DINAKAR</td>
<td>SURYALANKA</td>
<td>REVISION OF PYTHON TOPICS COVERED IN CLASS XI.</td>
</tr>
</tbody>
</table>

**MULTIPLE CHOICE QUESTIONS**

1. Find the valid identifier from the following
   1. 2_Myname
   2. My name
   3. True
   4. Mynname_2
   Answer is: 4

2. Which of the following will give output as [23, 2, 9, 75] if L=[6, 23, 3, 2, 0, 9, 8, 75]
   1. print(list1[1:7:2])
   2. print(list1[0:7:2])
   3. print(list1[1:8:2])
   4. print(list1[0:8:2])
   Answer is: 3

3. Which of the following operator can be used with string data type?
   1. **
   2. %
   3. +
   4. /
   Answer is: 3

4. Consider a tuple T = (10, 15, 25, and 30). Identify the statement that will result in an error.
   1. print(T[2])
   3. print(min(T))
   4. print(len(T))
   Answer is: 2

5. Which of the following symbol is used in Python for Multiline comments line comment?
   1. /****
   2. /*
   3. ""
   4. #
   Answer is:

6. Identify the output of the following Python statements.
\[ x = [[10.0, 11.0, 12.0],[13.0, 14.0, 15.0]] \\
\]
y = x[1][2] print(y) 

1. 12.0  
2. 13.0  
3. 14.0  
4. 15.0  

Answer is: 3

7

Identify the output of the following Python statements.

L= [10, 15, 20, 25, 30] 
L.insert( 3, 4) 
L.insert( 2, 3) 
print (Lst1[-5]) 

1. 2 
2. 3 
3. 4 
4. 20 

Answer is: 2

8

Which of the following properly expresses the precedence of operators (using parentheses) in the following expression: 5*3 > 10 and 4+6==11

1.((5*3) > 10) and ((4+6) == 11) 
2.(5*(3 > 10)) and (4 + (6 == 11)) 
3.(((5*3) > 10) and 4)+6) == 11 
4.((5*3) > (10 and (4+6))) == 11 

Answer is: 1

9

What will be the output of the following Python code?
i = 1 
while True: 
    if i%0O7 == 0: 
        break 
print(i)
i += 1
1. 1 2 3 4 5 6
2. 1 2 3 4 5 6 7
3. error
4. none of the mentioned
Answer is: 1

test

values = [1, 2, 3, 4]
numbers = set(values)

def checknums(num):
    if num in numbers:
        return True
    else:
        return False

for i in filter(checknums, values):
    print i
    1. 1 2 3 4 2. 1 2 3. 3 4 5. 2 3 4

Answer is:1

CASE STUDY QUESTIONS (R)

Based on the following code answer the questions

```python
import ___________________ #1
AR=[20,30,40,50,60,70]
FROM=random.randint(1,3)
```
```python
TO=random.randint(2,4)
for K in range(FROM,TO+1):
    print (AR[K],end="#")
```

1. What module should be imported To execute the above code #1?
   (I) math   (II) random    (iii) pickle    (iv) csv
   Answer is: ii

2. What will Be the maximum value of the variables FROM and TO?
   (i) 3,4   (ii) 4,3   (iii) 2,4    (iv) 4,2
   Answer is : I

3. What will Be the minimum value of the variables FROM and TO?
   (i) 2, 1   (ii) 1, 2   (iii) 1, 3   (iv) 1, 4
   Answer is: ii

4. What possible outputs(s) are expected to be displayed on screen at the time of execution of the program?
   (i) 10#40#70#   (ii) 30#40#50#   (iii) 50#60#70#   (iv) 40#50#70#
   Answer is: ii

5. What will be the output of random.random( )
   (i) 2   (II) 3.2   (iii)0.82   (iv) -0.32
   Answer is : ii

6. Ramu write a list program as shown below .based on the code answer the questions
   ```python
data = [[[1, 2], [3, 4]], [[5, 6], [7, 8]]]  #1
def fun(m):
```
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7</strong></td>
<td>The declaration of the LIST data is called (i) Local (ii) Global (iii) local and global (iv) none of the above</td>
<td>2</td>
</tr>
<tr>
<td><strong>8</strong></td>
<td>What will be printed after execution of the line #2 ? (i) [1,2] (ii) [[1, 2], [3, 4]] (iii) [[5, 6], [7, 8]] (iv) [5,6]</td>
<td>ii</td>
</tr>
<tr>
<td><strong>9</strong></td>
<td>What will be printed after execution of the line #3 ? (i) 4 (ii) 5 (iii) 2 (iv) 1</td>
<td>iv</td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>What will be last line of the output after execution of the line #4 ? (i) 4 (ii) 5 (iii) 2 (iv) 1</td>
<td>i</td>
</tr>
<tr>
<td><strong>11</strong></td>
<td>What will be the last line of the output of the above code, if line #4 is replaced with print (fun (data (1)) ? (i) 8 (ii) 5 (iii) 2 (iv) 1</td>
<td>i</td>
</tr>
<tr>
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<td>KV</td>
</tr>
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<td>-----</td>
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</tr>
<tr>
<td>2</td>
<td>Mr SANDEEP UPADHAY</td>
<td>KANCHANBAGH</td>
</tr>
</tbody>
</table>

**MULTIPLE CHOICE QUESTIONS**

1. Which one is not the feature of Python function  
   (a) Modularity  
   (b) Reusability  
   (c) Simplicity  
   (d) difficult to find error  
   Ans (d)  

2. What is the use of id() function in python?  
   (a) returns the data type of object  
   (b) returns the size of the object  
   (c) returns the identity of object  
   (d) None of the above  
   Ans: (c)  

3. Natasha is working in Python program which is function oriented. She is using the functions already available in python. These functions are called:  
   (a) User defined functions  
   (b) In-built functions  
   (c) module functions  
   (d) reusable functions  
   Ans: (b)  

4. Select which is false for Python function  
   (A) A Python function can return only a single value  
   (B) A function can take an unlimited number of arguments.  
   (C) A Python function can return multiple values  
   (D) Python function doesn’t return anything unless and until you add a return statement  
   Ans (A)  

5. Pick one the following statements to correctly complete the function body in the given code snippet.

   ```python
   def f(number):
       # Missing function body
       print(f(5))
   ```
   
   (a) return "number"  
   (b) print(number)
6. Consider the following program. What is the correct flow of execution of statements:

```python
def fun1(m, n):
    c = m + n
    print(c)
    return c

x = 10
y = 20
fun1(x, y)
print("OK")
```

(A) 1, 2, 3, 4, 5, 6, 7, 8   (B) 5, 6, 7, 1, 2, 3, 4, 8
(C) 5, 6, 1, 2, 3, 4, 7, 8   (D) 7, 8, 1, 2, 3, 4, 5, 6

Ans (B)

7. What is the maximum and minimum value of z in the following program:

```python
import random
x = random(2, 6)
y = random(1, 2)
z = x + y
print(z)
```

(A) min: 1 max: 2   (B) min: 2 max: 6
(C) min: 1 max: 8   (D) min: 3 max: 8

Ans (D)

8. Which is NOT the possible output of the following program from given options:

```python
import random
periph = ['Mouse', 'Keyboard', 'Printer', 'Monitor']
for i in range(random.randint(0, 2)):
    print(periph[i], '*', end=" ")
```

(A) Mouse *Keyboard *   (B) Mouse *
(C) Mouse *Keyboard* Printer*   (D) No output

Ans (C)

9. What is the output of the following program:

```python
import math
a = math.ceil(20.5)
b = a / 5
c = math.floor(b)
print(c)
```

(A) 5   (B) 4   (C) 6   (D) None of the above

Ans (B)
### CASE STUDY QUESTIONS (R)

Lalit is a game programmer and he is designing a game where he has to use different python functions as much as possible. Apart from other things, following functionalities are to be implemented in the game.

(1) The players have to input their names and Lalit has to remove the unnecessary blank spaces from the name.

(2) He is simulating a dice where random number generation is required.

(3) Since the program becomes too lengthy, Lalit wants a separate section where he can store all the functions used in the game program.

(4) He wants to implement usage of less memory so he doesn’t want to include all the functions stored in separate sections.

(5) In the game, one source object generates and throws balls and the player has to catch the balls. Here the distance and time is to be calculated so that the program can check whether the ball was caught or missed by the player.

Lalit is feeling difficulty in implementing the above functionalities. Help him by giving answers following questions:

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Q.1:</strong> In functionality (1), which python module and function should be used:</td>
<td>(A) <code>remove()</code> function of string module (B) <code>split</code> function() (C) <code>trim()</code> function of string module (D) <code>strip()</code> function of string module</td>
</tr>
<tr>
<td><strong>Q.2:</strong> To implement functionality (2) which module can be used:</td>
<td>(A) <code>random</code> (B) <code>randomise</code> (C) <code>randint</code> (D) <code>math</code></td>
</tr>
<tr>
<td><strong>Q.3:</strong> In functionality (3), Lalit should use</td>
<td>(A) in-built functions (B) He should write another Python program (C) <strong>He should use a module with all the required functions</strong></td>
</tr>
</tbody>
</table>
Q.4: To implement functionality (4), which syntax is correct
(A) import <function> from <module>
(B) from <module> import <function>
(C) import all
(D) import <function>

Q.5: Which function is not the built-in Python function
(A) input()
(B) len()
(C) sqrt()
(D) pow()

One student who is learning Python, is making a function-based program to find the roots of a quadratic equation. He wrote the program but he is getting some error. Help him to complete the task successfully:

```python
1 from .......... import sqrt
2 Def quad(b,c,a=1):
3     x = b*b-4*a*c
4     if x<0:
5         return "Sorry, complex root(s)"
6     d = sqrt(x)
7     r1 = (-b + d)/(2*a)
8     r2 = (-b - d)/(2*a)
9     return r1,r2
10 print(quad(1,1,2))
11 root = quad(3)
12 rt = quad(2,1)
```

Q.1: Which python module should be used in line 1
(A) random
(B) CMath
(C) math
(D) Either (B) or (C)

Q.2: He is getting an error in line 9. What may be the error?
(A) Syntax error
(B) Indentation error
(C) Logical Error
(D) NameError

Q.3: Which statement is correct with reference to above program
(A) Two return statements are used and a function can use only one return statement
(B) Required module is not given
(C) Syntax error in line 4
(D) Error in line 11

Q.4: Which type of argument method is used in line 12
(A) Positional arguments
(B) Default arguments
(C) Keyword arguments
(D) Variable length arguments

Q.5: If all the errors are removed from the program then what will be the value of variable rt after execution of line 12
(A) (-1.0, -1.0)
(B) [-1.0, -1.0]
(C) "Sorry, complex root(s)"
(D) -1.0, -1.0
<table>
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<tr>
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<th>NAME OF THE TEACHER</th>
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<tbody>
<tr>
<td>3</td>
<td>Mr RAVI KUMAR TEWARI</td>
<td>INS KALINGA</td>
<td>Default parameters, positional parameters, function value(s), flow of execution, scope of a variable (global scope, local scope)</td>
</tr>
</tbody>
</table>

### MULTIPLE CHOICE QUESTIONS

1. `def s_interest(prnc, time=3, rate=0.12):`  
   ```python```  
   ```python
   return (prnc*time*rate)
   ```  
   ```python
   s_interest(5000)
   ```  
   a. 800  
   b. 1700  
   c. 1800  
   d. 450  
   Ans: c. 1800

2. `def func(*args):`  
   ```python
   for i in args:
       print(i)
   ```  
   `func(1, 2, 3)`  
   a. 1  
   b. 2  
   c. 3  
   d. 1 2 3  
   e. Error  
   f. None  
   Ans: a. 1  
   ```
   2  
   3
   ```

3. `def greet(x):
   if x < 0:
       return "Welcome!"
   else:
       return "Namaste"
   print(greet(1))`  
   ```python
   ```  
   `print(greet(1))`
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. In python arguments can be passed…</td>
<td>d. Both A and B</td>
</tr>
<tr>
<td>5. If return statement is not used inside the function, the function will return:</td>
<td>c. None</td>
</tr>
<tr>
<td>6. Which of the following function headers is correct?</td>
<td>C. def fun(a, b = 2, c = 3)</td>
</tr>
<tr>
<td>7. Which of the arguments can be skipped in the function call?</td>
<td>b. default arguments</td>
</tr>
</tbody>
</table>
8. Which of the following is a feature of DocString?
   a) Provide a convenient way of associating documentation with Python modules, functions, classes, and methods
   b) All functions should have a docstring
   c) Docstrings can be accessed by the \_doc\_ attribute on objects
   d) All of the mentioned
   **Ans: d) All of the mentioned**

9. ```python
def func1(f_name, val):
    print(f_name(val))

func1(max, [7,8,9])
func1(min, [8,7,9])
a. 9,7  
b. 7,9  
c. error  
d. None of the mentioned

**Ans: a) 9,7**
```

10. Variable defined inside a function referred to as:
   a. Global variable
   b. Default variable
   c. Local variable
   d. Dynamic variable
   **Ans: c. Local Variable**

### CASE STUDY QUESTIONS (R)

1. Shivam wants to know the correct name resolution rule in Python. Please help him.
   - Local, Enclosing, Global, Built in
   - Global, Enclosing, Local, Built in
   - Local, Global, Enclosing, Built in
   - Built in, Enclosing, Global, Local
   **Ans: a. Local, Enclosing, Global, Built in**

2. Which type of parameter Mahesh has to use in function definition, so that any number of arguments can be passed through function call
   - Keyword
   - Variable length.
3. Where does the execution of the program start?
   a. user defined function
   b. __main__
   c. void function
   d. __name__
   Ans: b. __main__

4. 1. def cat_dog_count(arg):
    2.     arg = arg.lower()
    3.     l = arg.split()
    4.     c1 = l.count("cat")
    5.     c2 = l.count("dog")
    6.     if c1 == c2:
    7.         return "True"
    8.     else:
    9.         return "False"

   10. b = cat_dog_count("ca dog cat do d Trip flip cat")
   11. print(b)

   a. 1 2 3 4 5 6 7 8 9 10 11
   b. 1 10 1 2 3 4 5 10 11
   c. 1 10 1 2 3 4 5 6 7 10 11
   d. 1 10 1 2 3 4 5 6 8 9 10 11

   Ans: d. 1 10 1 2 3 4 5 6 8 9 10 11

5. Which of the following function call can be used to invoke the below function definition?
   def calc(p,q,r,s)
   I. calc(3, 4, 5, 6)
   II. calc(p=1, 2, 3, 5)
   III. calc(3, 4, r=3, s=5)
   IV. calc(q=4, p=3, s=5, r=7)

   a. All are correct
   b. I, III, IV are correct
   c. I, II, III are correct
   d. I & IV are correct

   Ans: b I, III, IV are correct

6. Void function refers?
   a. A function having the name void.
   b. A function returns NULL
   c. A function that returns a value.
A function returns None
**Ans:** d. A function returns None

7 We can pass the argument in the function call in any order using...
Keyword argument
Variable Length argument
No argument
D. default argument

**Ans:** a. Keyword argument

8 Rohit wants to access the global variable inside the function having the local variable same name as Global variable. Suggest him which keyword he has to use:

import
assert
lambda
global

**Ans:** d. global

| def power2(n=3):
| def f(x):
| return n**x
| return f
|
| print(power2()(4))
|
| Error
| 3
| 4
| d. 81

**Ans** d. 81

| def double(x):
| return 2*x
| def apply(f,data):
| return f(data)
| print(apply(double,[1,2,3]))
| [1, 2, 3, 1, 2, 3]
| [2,4,6]
| 2*[1,2,3]
| Error
| **Ans** a.[1, 2, 3, 1, 2, 3]
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<tr>
<td>4</td>
<td>Mr SHASHIDHAR</td>
<td>BOLARUM</td>
<td>Introduction to files, types of files (Text file, Binary file), relative and absolute paths</td>
</tr>
</tbody>
</table>

**MULTIPLE CHOICE QUESTIONS**

1. How many types of files are there in python?
   a) 1  
   b) 2  
   c) 3  
   d) 4  
   Answer: b) 2

2. The files that consists of human readable characters
   a. Text file  
   b) Binary file  
   c) Both Text and Binary file  
   d) None of the above.  
   Answer: a) Text File

3. Each line of a text file is terminated by a special character, called?
   a. End of file  
   b) End of byte  
   c) End of line  
   d) All the above  
   Answer: c) End of line

4. Trying to open a binary file using a text editor will show:
   a. Garbage values  
   b) ASCII values  
   c) Binary character  
   d) Unicodes  
   Answer: a) Garbage Values.

5. In file handling, what does this terms means “r, a”?
   a) read, append  
   b) append, read  
   c) write, append  
   d) none of the mentioned  
   Answer: a) read, append

6. Which function is used to read single line from file?
   a) readline()  
   b) readlines()  
   c) readstatement()  
   d) readfullline()  
   Answer: a) readline()

7. Which function is used to close a file in python?
   a) close()  
   b) stop()  
   c) end()  
   d) closefile()  
   Answer: a) close()

8. A file maintains a __________ which tells the current position in the file where writing or reading will take place.
<table>
<thead>
<tr>
<th></th>
<th>a. line</th>
<th>b. file pointer</th>
<th>c. list</th>
<th>d. order</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer:</td>
<td>b. file pointer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Which of the following file modes opens a file for appending and reading in a binary file and moves the file pointer at the end of the file if the file already exists or creates a new file?</td>
<td>a. .a</td>
<td>b. .a+</td>
<td>c. .ab+</td>
</tr>
<tr>
<td>Answer:</td>
<td>c) .ab+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Which method of pickle module is used to write onto a binary file?</td>
<td>a. dump()</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b. load()</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>c. All of the above</td>
<td></td>
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<td></td>
<td>d. None of the above</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Answer:</td>
<td>a) dump()</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CASE STUDY QUESTIONS (R)**

1 | Kum. Aishwarya is running her own boutique business. She wants to store data of all orders permanently and fast processing of data through her boutique software. Suggest her to choose the appropriate technique among the following.
   a) She can use Python Dictionaries with Text files.
   b) She can use Python Dictionaries with Binary file concept.
   c) She can use Python Lists without the Binary files concept.
   d) She can use Python Dictionaries without the Binary file concept.

Answer: b) She can use Python Dictionaries with Binary file concept.

2 | A programmer has confusion in understanding the behaviour of opening a file in "w" mode. Clear his/her confusion, by suggesting the correct option among the given below.
   The behaviour of "w" mode is
   a) Opening fails if the file already exists already.
   b) Opening fails if the file does not exist already.
   c) Opening will be succeeded if file exists with data and keeps the data intact.
   d) Opening will be succeeded, if the file exists replaces the contents, do not exist, creates a new file.

Answer: d)

3 | **Master Adithya is a class 12 student like you. He is practicing text file programming. He has a text file named names.txt. He wants to display all**
the names contained in the text file. He has written one of the following
codes and succeeded in getting the output. Guess which among the
following option might have given the correct output.

<table>
<thead>
<tr>
<th>Option</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>names = open(&quot;names.txt&quot;, &quot;r&quot;) for line in names: print(names)</td>
</tr>
<tr>
<td>b)</td>
<td>names = open(&quot;names.txt&quot;, &quot;r&quot;) for line in names: print(line)</td>
</tr>
<tr>
<td>c)</td>
<td>names = open(&quot;names.txt&quot;, &quot;r&quot;) for line in names: print(&quot;line&quot;)</td>
</tr>
<tr>
<td>d)</td>
<td>names = open(&quot;names.txt&quot;, &quot;r&quot;) for names in line: print(line)</td>
</tr>
</tbody>
</table>

Answer : b)

4
A Student's windows O/S got corrupted. He is trying to access his files through
Command Prompt, but unable to find out all his Binary data files pertaining to his
project. Help him to find out all his binary data files by suggesting the suitable
extension name among the following.

a) .txt       b) .bin       c) .dat       d) .com

Answer : c) .dat

5
Given the following directory structure. Assume that the CWD is in the root folder
where animals directory resides. What is the relative path to the feline folder?
Given the following directory structure. Assume that the CWD is in the feline folder. What is the relative path to the file bears.gif?

a) C:/animals/feline  
b) animals/feline  
c) feline/animals  
d) None of the above.

**Answer : b)**

---

Given the following directory structure. Assume that the CWD is in the root folder where animals directory resides. What is the absolute path to bears.gif?

a) C:/animals/ursine  
b) ../animals/feline  
c) ..ursine/bears.gif  
d) None of the above.

**Answer : c)**

---

Given the following directory structure. Assume that the CWD is in the root folder where animals directory resides. What is the absolute path to bears.gif?

a) C:/animals/ursine  
b) ../animals/feline  
c)
<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
</table>
| 8 | Given the following directory structure. Assume that the CWD is in the feline folder what is the relative path to lions.gif?  
| a) C:/animals/ursine  
b) lions.gif  
c) /animals/ursine/bears.gif  
d) None of the above.  
| **Answer : b)** |
| 9 | Master Adithya could able to read contents of a text file part by part. Out of the following which option he would have been used?  
a) read()  
b) readlines()  
c) readline() readfullline()  
| **Answer c)** |
| 10 | In a program, there is a need of reading whole content of a textfile in a single shot and store it in the form of list. Suggest the best option among the following  
a) read()  
b) readline()  
c) readlines()  
d) None of the above  
| **Answer c)** |
### MULTIPLE CHOICE QUESTIONS

1. What is the default mode when the file is opened using the open() method?
   - a. Write
   - b. Read
   - c. Write and read
   - d. Read and write

   Correct answer: b) read

2. The function read() is used to
   - a. Read the entire content of the file
   - b. Read the entire content of the file in the form of list
   - c. Read the content of the file line by line
   - d. Read each string of the content of the file

   Correct Answer: a) Read the entire content of the file

3. Which of the following statements is true with respect to closing a file?
   - a. It is mandatory to close a text file which is opened
   - b. Python automatically closes a file
   - c. Python automatically closes a file if the reference object of the file is allocated to another
   - d. None of the above

   Correct Answer: c) Python automatically closes a file if the reference object of the file is allocated to another

4. Which of the following statements is true?
   - a. Python doesn't write data to the file until you close the file using the close() method
   - b. If the file is opened for writing and is not closed, data is not written into the target file.
   - c. Python can write data to the file even if you do not close the file
5  The mode “w+” is used to open the file for

a.  Read and write a text file
b.  Read and write a binary file
c.  Write and Read a text file
d.  Write and Read a binary file

Correct Answer: c) Write and Read a text file

6  When a file is opened in “w” mode, the file pointer is placed at

a.  the beginning of the file.
b.  The end of the file.
c.  the middle of the file.
d.  the current position of the file.

Correct Answer: a) the beginning of the file.

7  When a file is opened in “a” mode, the file pointer is placed at

a) the beginning of the file.
b) The end of the file.
c) the middle of the file.
d) the current position of the file.

Correct Answer: b) The end of the file

8  (A) : If a file is opened using the “with” statement, you get better syntax and exceptions handling.

(B): When a file is opened using the “with” statement, it need not be closed using the close() function.

In the above two statements, which of the following is true?

a) Both A and B are Wrong
b) A is Wrong, but B is right.
c) A is right, but B is Wrong
d) Both A and B are right.
Answer: d) Both A and B are right.

9
In r+ mode, if we write the file directly, it will
a) overwrite the beginning content
b) continue reading from the previous content
c) continue writing from the previous content
d) work like the append mode
Correct Answer: a) overwrite the beginning content

10
When the file content has to be modified, we can use the ____________ mode
a. r
b. w
c. a
d. r+
Correct Answer: c)a

CASE STUDY QUESTIONS (R)

1
Rajitha, during Practical Examination of Computer Science, has been assigned an incomplete search() function to search in a text file “CAMP.txt”. The file “CAMP.txt” is created by his Teacher and the following information is known about the file
• File contains details of camp describing events of an adventure camp in text format
• File contains details of adventure activities like caving, trekking, paragliding, rafting and rock climbing Rajitha has been assigned the task to complete the code and print the number of the word trekking

def search():
    f = open("CAMP.txt",____) #Statement-1
    A=____________________ #Statement-2
    ct=0
    for x in A:
p=x.split()
if p=="trekking":
    ct+=1
print(ct)  # Statement-3

1. In which mode Rajitha should open the file in Statement-1?
   a) r  b) r+  c) rb  d) wb
   Correct Answer: a) r

2. Name the function that can be used by Rajitha to read the content of the file in statement-2.
   a) f.read( )  b) f.readline (c) f.readlines( )  d)f.readl()
   Correct answer : c) f.readlines()

3. Which statement should Rajitha use in Statement 3 to close the file.
   a) file.close()  b) close(file)  c) f.close()  d) close()
   Correct Answer: c) f.close()
4  Ajay is studying in an Engineering College in CSE branch. His sister, a class 12 student of Computer Science comes to him one day asking him the difference between r+ and w+ modes of a file. What is the correct answer Ajay would give to his sister?

(a) No difference between r+ and w+
(b) In r+ mode, the file is created if it does not exist and erases the content if the file already exists; w+ raises an error if the file does not exist
(c) In w+ mode, the file is created if it does not exist and erases the content if the file already exists; r+ raises an error if the file does not exist
(d) Depends on the operating system
Correct answer : c

5  Aparajitha joined an MNC company in Bangalore as a Python Programmer. Her task is to handle the data available for the company in the form of text files and perform the search operations based on specific criteria. Now she is asked to count the number of words in the file which start with “a” or “m” (both upper and lower cases) in a text file “Passion.txt”. She needs your help as she is stuck up with some statements. Please help her out to complete the task

def filecreate():
    f=open("Passion.txt","r") #Statement 1
    f.write() f.close() # Statement 2

def count_A_M():
    f=open("Passion.txt","r") # Statement 3
    A,M=0,0
    r=f.read()
    for x in r:
        if x[0]=="A" or x[0]=="a":
            A=A+1 25 elif x[0]=="M" or x[0]=="m": M=M+1
    f.close()
    print("A or a: ",A)
    print("M or m: ",M)

1) Choose the correct option to be used as statement 1
a) f=open("Passion.txt","r")
b) f=open("Passion.txt","r+")
c) f=open("Passion.txt","w")
d) f=open("Passion.txt","a")
Correct answer : c

2) Which of the following options can be used as statement 3
a) f=open("Passion.txt","r")
b) f=open("Passion.txt","w")
c) f=open("Passion.txt","a")
d) f=open("Passion.txt","rt")
correct answer : a and d

3) Choose the correct option to be used as statement 2
a) F.close()}
6. Which of the following statements is/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 above.
   Correct answer: d

7. Which of the following statements is not True
   a) File method close() closes the opened file.
   b) Python automatically closes a file when the reference object of a file is reassigned to another file.
   c) close() method returns a value which ensures the termination of the file stream.
   d) Calling close() method more than once is allowed.
   Correct answer: c

8. What is the expected output of the given code?

   ```python
   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
   Correct Answer: a

9. Which of the following statements is true with respect to the files in Python?
   a) File can be opened with a file handle using open method without any arguments.
   b) File can be opened with a file handle using open method with one argument to read the file.
<p>| | |</p>
<table>
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<tr>
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<tbody>
<tr>
<td><strong>c)</strong> File can be opened with a file handle using open method with one argument to write the file</td>
<td><strong>d)</strong> File can be opened with a file handle using open method with one argument to append the file</td>
</tr>
<tr>
<td></td>
<td>Correct answer: b</td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>To open a file only for reading which of the following statement cannot be used:</td>
</tr>
<tr>
<td><strong>a)</strong> <code>f = open(&quot;PYTHON.txt&quot;)</code></td>
<td><strong>b)</strong> <code>f = open(&quot;PYTHON.txt&quot;, &quot;rt&quot;)</code></td>
</tr>
<tr>
<td><strong>c)</strong> <code>f = open(&quot;PYTHON.txt&quot;, &quot;r&quot;)</code></td>
<td><strong>d)</strong> <code>f = open(&quot;PYTHON.txt&quot;, &quot;r+&quot;)</code></td>
</tr>
<tr>
<td></td>
<td>Correct answer: d</td>
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<tr>
<td>SNO</td>
<td>NAME OF THE TEACHER</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>6</td>
<td>Mrs CH KIRAN KUMARI</td>
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</tbody>
</table>

**MULTIPLE CHOICE QUESTIONS**

1. The __________ method returns a list containing each line of the file as a list item.
   a) read() b) readline() c) readlines() d) readone()
   Answer: c) readlines().

2. If we want to write a sequence of strings, list, tuple into the file then we use __________ function.
   a) write() b) writelines() c) writerow() d) append()
   Answer: b) writelines().

3. read() and readline() functions can be used for reading no of characters from file if size is mentioned.
   read() and readline() b) readlines() and readline()
   c) read() and readlines() d) None of the above
   Answer: a) read() and readline()

4. We can use readline() function which can read one line at a time from the file.
   a) read() b) readline() c) readlines() d) readone()
   Answer: b) readline()

5. To read twelve characters from a file object fin we use __________
   fin.read(12) b) fin.read() c) fin.readline() d) read(12)
   Answer: a) fin.read(12)

6. Python automatically flushes the file buffers before closing a file with close() function.
   True b) False
<table>
<thead>
<tr>
<th></th>
<th>Answer: a) True</th>
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<tbody>
<tr>
<td>7</td>
<td>The _______ method in Python file handling clears the internal buffer of the file.</td>
</tr>
<tr>
<td></td>
<td>a) close() b) flush() c) clear() d) open()</td>
</tr>
<tr>
<td></td>
<td>Answer: b) flush()</td>
</tr>
</tbody>
</table>

| 8 | Suppose content of 'Myfile.txt' is |
|   | Humpty Dumpty sat on a wall |
|   | Humpty Dumpty had a great fall |
|   | All the king’s horses and all the king’s men |
|   | Couldn't put Humpty together again |
|   | What will be the output of the following code? |
|   | myfile = open("Myfile.txt") |
|   | record = myfile.read().split() |
|   | print(len(record)) |
|   | myfile.close() |
|   | 24 b) 25 c) 26 d) 27 |
|   | Answer: c) 26 |

| 9 | To create a new file or to write on an existing file after truncating / overwriting its old content, file has to be opened in _______ access mode |
|   | “w+” b) “a+” c) “r+” d) “wb” |
|   | Answer: a) “w+” |

| 10 | Which of the following options can be used to read the first line of a text file Myfile.txt? |
|    | myfile = open('Myfile.txt'); myfile.read() |
|    | myfile = open('Myfile.txt','r'); myfile.read(n) |
|    | myfile = open('Myfile.txt'); myfile.readline() |
|    | myfile = open('Myfile.txt'); myfile.readlines() |
11. Which of the following options can be used to read the whole content of a text file Myfile.txt?

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<table>
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<tr>
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<tbody>
<tr>
<td>a)</td>
<td>myfile = open('Myfile.txt'); myfile.read()</td>
</tr>
<tr>
<td>b)</td>
<td>myfile = open('Myfile.txt','r'); myfile.read(n)</td>
</tr>
<tr>
<td>c)</td>
<td>myfile = open('Myfile.txt'); myfile.readline()</td>
</tr>
<tr>
<td>d)</td>
<td>myfile = open('Myfile.txt'); myfile.readlines()</td>
</tr>
</tbody>
</table>

**Answer:** a) myfile = open('Myfile.txt'); myfile.read()

d) myfile = open('Myfile.txt'); myfile.readlines()

---

12. To open a file for reading any of the following statement can be used:

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>a)</td>
<td>f = open(&quot;demofile.txt&quot;)</td>
</tr>
<tr>
<td>b)</td>
<td>f = open(&quot;demofile.txt&quot;, &quot;rt&quot;)</td>
</tr>
<tr>
<td>c)</td>
<td>f = open(&quot;demofile.txt&quot;, &quot;r&quot;)</td>
</tr>
<tr>
<td>d)</td>
<td>All of the above</td>
</tr>
</tbody>
</table>

**Answer:** d) All of the above

---

13. Suppose content of 'Myfile.txt' is:

Twinkle twinkle little star
How I wonder what you are
Up above the world so high
Like a diamond in the sky

What will be the output of the following code?

```python
myfile = open("Myfile.txt")
data = myfile.readlines()
print(len(data))
myfile.close()
```

<p>| | |</p>
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<tbody>
<tr>
<td>a)</td>
<td>3</td>
</tr>
<tr>
<td>b)</td>
<td>4</td>
</tr>
<tr>
<td>c)</td>
<td>5</td>
</tr>
<tr>
<td>d)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Answer:** d) 6
**Answer : b) 4**

<table>
<thead>
<tr>
<th>14</th>
<th>Suppose content of 'Myfile.txt' is</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Culture is the widening of the mind and of the spirit.</td>
</tr>
<tr>
<td></td>
<td>What will be the output of the following code?</td>
</tr>
<tr>
<td></td>
<td>myfile = open(&quot;Myfile.txt&quot;)</td>
</tr>
<tr>
<td></td>
<td>x = myfile.read()</td>
</tr>
<tr>
<td></td>
<td>y = x.count('the')</td>
</tr>
<tr>
<td></td>
<td>print(y)</td>
</tr>
<tr>
<td></td>
<td>myfile.close()</td>
</tr>
<tr>
<td>2</td>
<td>b) 3</td>
</tr>
<tr>
<td>c)</td>
<td>4</td>
</tr>
<tr>
<td>d)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Answer : b) 3**

**CASE STUDY QUESTIONS (R)**

<table>
<thead>
<tr>
<th>1</th>
<th>Atif has been asked by his senior to complete the following code. The code uses a text file namely message.txt.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>def count_words(filename):</td>
</tr>
<tr>
<td></td>
<td>Bigwords=0</td>
</tr>
<tr>
<td></td>
<td>F=open(filename,'r')</td>
</tr>
<tr>
<td></td>
<td>Data=F.___________ # line 1</td>
</tr>
<tr>
<td></td>
<td>words = ____________ # line 2</td>
</tr>
</tbody>
</table>
|   |     For w in words :
|   |           ___________ # line 3 |
|   |           ___________# line 4 |
|   |     return bigwords, len(words) |
|   |     _______ # line 5 |
print("total number of words : ", count)
print("No. of big words : ", big)

i. Which function is used to read all the content of the file for line 1 and store in Data variable in string format.
   a) readline()   b) read(file)   c) read()   d) readlines()

Correct Answer : c) read()

ii. Which option is correct for completing line 2
   a) Data.split()   b) Data.Split()   c) f.split()   d) None of the above

Correct Answer : a) Data.split()

iii. Which option is correct for completing line 3 and line 4 so that the count of words having length more than 8 characters.
   a) If w>8 :
       bigwords+=1
   b) If len(w) >8:
       bigwords+=1
   c) if len(w) >=8:
       bigwords+=1
   d) if len(w) >8:
       bigwords+=1

Correct Answer :
   b) if len(w) >8:
       bigwords+=1

iv. Which option is correct for completing line 5 so that function count_words() is called.
   a) big ,count= count_words(filename)
   b) big ,count= count_words("message.txt")
   c) big _count=count_words("message.txt")
   d) big=count_words("message.txt")
      count=count_words("message.txt")

Correct Answer : b) big ,count= count_words("message.txt")

Teacher has developed a program to count how many lines start with "T" in a text
def countlines():
    file = _______ ("story.txt") # line 1
    data = __________ # line 2
    __________ # line 3
    for I in data :
        if _______ : # line 4
            c+=1
        print("Number of lines start with T ", _____) # line 5

Which function to be used to complete line 1
a) Read()    b) open()    c) read()    d) Open()

Correct Answer : b) open()

Which function is used to read the content from the file
a) file.read()    b) readline()    c) file.readlines()    d) file.readline()
Correct Answer : c) file.readlines()

Line3- initialize the variable for count
a) c=0    b) c=c+1    c) both    d) none

Correct Answer : a) c=0

choose correct condition for line3
a) i='T'    b) i[0]=='T'    c) "i"==T    d) i[0]==T
Correct Answer : b) i[0]==T

complete the line 4
a) c    b) count    c) I    d) data
Correct Answer : a) c

Kum. Anisha wants to develop a program to count the number of “Me” or “My” words present in a text file “STORY.TXT”. But she is not sure about the code. Help her to complete it.
def displayMeMY():
    n=0
    f=open("story.txt",'____') #line 1
    N = __read() #line2
    M = N.________ #line 3
    for x in M :
        if ____________________:
            n=n+1
        f.________ #line 5 Closing the file.
    print("Count of Me /My words : ", ____ ) #line 6

i. Which access mode to be used in line 1 to open the file.
  a) w   b) r    c) rb   d) a
Correct Answer : b) r

ii. Fill the line 2 by suitable option
  a) F.    b) f.   c) n.   d) N.
Correct Answer : f.

iii. Which method to be used to complete the line 3
  a) readline()  b) split()   c) write()  d) writelines()
Correct Answer : b) split()

iv. select the correct option to complete the line 4
  a) x==me or x== my       c) x=="Me" or x=="My"
  b) x="me" or "my"       d) x=["Me","My"]
Correct Answer : c) x=="Me" or x=="My"

v. Which function is used to complete line 5.
  a) Exit()  b) close()    c) end()    d) Close()
Correct Answer : b) close()
Rahul is trying to perform write the data to a text file. He is not sure of the commands to be used. Hence partially he could write the program. Help him to complete the program.

```python
file1 = open("myfile.txt", ____)#line1
L = ["This is Delhi \n", "This is Paris \n", "This is London"]
file1._________(L) #line2
file1.close()
file1 = open("myfile.txt", _____)#line3 opening file to add new data to existing file .
# writing newline character
file1.write("\n")
file1._________("Today")#line4
```

i. Which access mode to be used in line 1 to open the file for writing on to file.
   a) w   b) w+    c) wr+  d) a

Correct Answer :a) w

ii. Which function to be used in line 2 for writing a list to file.
   a) write()   b) writelines()  c) writerow()  d) writeln()

Correct Answer : b) writelines()

iii. Which access mode to be used in line3 to open the file for writing new content on existing file without any data loss.
   a) w   b) w+    c) wr+  d) a

Correct Answer : d) a

iv. Which function to be used in line4 for writing a list to file.
   a) write() b) writelines()  c) writerow()  d) writeln()

Correct Answer : a) write()
Smitha wants to copy text file “Source.txt” onto “target.txt” barring the lines starting with a “@” sign. Help her in completing the code. def filter(oldfile, newfile):

    fin=open(oldfile,___)#line1
    fout=open(newfile,_____)#line2
    while True :
        text=__________#line3
        if len(text)==0:
            break
        if text[0]="@" :
            continue
        _____.write(text)#line4
        fin._____ #line5
        fout._____#line6
    filter("source.txt","target.txt")

i. In which access mode oldfile to be opened. Complete the line 1 by selecting appropriate option.
   a) w    b) r    c) rb    d) a
   
   *Correct Answer* : b) r

ii. In which access mode newfile to be opened. Complete the line 2 by selecting appropriate option.
   a) w    b) r    c) rb    d) a

   *Correct Answer* : a) w

iii. Which of the following function can be used to complete line3 for reading line by line.
      a)fin.readline()   b) fin.readlines()
      c)fin.read()    d) fout.readline()
iv. Identify the object that can be used in line 4
   a) fin b) fout c) Fin d) Fout
   Correct Answer: b) fout

v. Identify the function that can be used in line 5 and 6 to close the files
   a) closed() b) close() c) end() d) eol()
   Correct Answer: b) close()

6
Write the output of the following code

```python
f = open("data.txt", "r")
d = read()
d1 = read(5)
print(d)
print(d1)
```

# data file contains the following data
Welcome to python program
Welcome to python program b) Welcome c) error d) None

Correct Answer: c) error

7
Your teacher has given you a method/function FilterWords() in python which reads data from a text file NewsLetter.TXT. Your teacher intentionally kept few blanks in between the code and asked you to fill the blanks so that the code will run to find desired result. Do the needful with the following python code.

```python
def FilterWords():
    c=0
    file=open('NewsLetter.TXT', '_____') # Statement-1
    data = file._____ # Statement-2
    line = _____ # Statement-3
```
linecount= ______: #Statement-4
    print("No of lines",linecount)
    ________ #Statement-5
FilterWords()
   i.   Fill in the statement 1 with appropriate access mode
       a)  rb  b) r   c) w   d) a
Correct Answer : b) r
   ii.  Fill the statement 2 with appropriate function to read 5 characters
       a)  read()  b) read(5)  c) readline(5)  d) get(5)
Correct Answer : b) read(5)
   iii. Fill the statement 3 to read the remaining content of the file in list form.
       a)  file.read()  b) file.readlines()  c) file.readline()  d) readlines()
Correct Answer : b) file.readlines()
   iv.  Fill the statement 4 to count the no. of lines in the file.
       a)  len()  b) len(line)  c) Len(line)  d) len.line
Correct Answer : b) len(line)
   v.   Fill in the blank in Statement-5 to close the file.
       a)  file.close()  b) File.Close()  c) Close()  d) end()
Correct Answer : a) file.close()

Renu wants to write multiple lines i.e 5 lines of text content into a text file mylife.txt. But she is not able to do it. Help her to complete the program.

F  =open( ___________) #line 1
   ________________ #line 2
Sonu wants to create one single program to read and write data using a single file object. But she got confused and could not complete the program. Help her to complete it. fileobject=open("report.txt", "____") # line 1

```python
f = open("report.txt", "w")
line = input("Please enter a line: ")
for i in range(5):
    f.write(line + "\n")
f.close()
```

**Question:**

i. Fill line 1 with correct statement.
   
   a) ("mylife.txt")  
   b) ("mylife.txt","w")  
   c) ("mylife.txt", "wb")  
   d) (mylife.txt)

**Correct Answer:** b) ("mylife.txt","w")

ii. Choose the correct option for looping to fill line2

   a) For I in range(5):  
   c) for I in range(5):  
   
   b) for I in range(1,5):  
   d) for I in range(5)

**Correct Answer:** c) for I in range(5):

iii. Fill line 3 with correct option to take the input from console IO.

   a) Input("enter a line")  
   b) input("enter a line")  
   c) str("Enter a line")  
   d) int(input(\"enter a line\") )

**Correct Answer:** b) input("enter a line")

iv. Fill line 4 with correct option to copy the line to file.

   a) write(Line)  
   b) writeln(Line)  
   c) F.write("Line")  
   d) F.write(Line)

**Correct Answer:** d) F.write(Line)

v. Fill line 5 with correct option to add new line character after every line.

   a) write(" ")  
   b) writeln(" ")  
   c) F.write("\n")  
   d) write("\n")

**Correct Answer:** c) F.write("\n")
print ("WRITING DATA IN THE FILE")
print() # to display a blank line

while True:
    line= input("Enter a sentence ")
    fileobject.___________ #line2
    fileobject.write('\n')
    choice=input("Do you wish to enter more data? (y/n): ")
    if choice in ('n','N'):
        break
print("The byte position of file object is ",fileobject.tell())
fileobject._________ # line3
print()
print("READING DATA FROM THE FILE")
str=_______________  #line4
print(str)

i. Fill the line1 with appropriate access mode to perform both write and read operations.
   a) r+  b) w   c) w+  d) a
Correct Answer : c) w+

ii. Fill Line 2 to perform write operation on to the file .
    a) Writeline(line)   b) write(line)   c) writelines(line)   d) writerow(line)
Correct Answer : b) write(line)

iii. Fill line 3 with correct function that places file object at beginning of file
    a) tell()  b) seek(0)  c) Seek(0)  d) seek()
Correct Answer : b) seek(0)

iv. Fill line 4 to read to all the content of the file.
   a) fileobject.read()  b) read()  c) fileobject.readline()  d) readrow()

Correct Answer : a) fileobject.read()

v. Fill line 5 to close the file.
   a) fileobject.close()  b) Fileobject.Close()  c) Close()  d) end()

Correct Answer : a) fileobject.close()

10

Mr. Ravi, has written code which reads each character of a text file story.txt, and also counts and displays the occurrence of alphabets of A (include small cases ‘a’ too). But while doing so, he is unable to complete the code, help him to complete the code.

Ex: If the file content is as follows:

   Updated information
   As simplified by official websites.

The function EUcount() will display the output as:

A or a : 4
M or m : 2

Code:

def EUcount():
   __________________   #1 statement to open the file

   A=0
   __________________   #2 statement to read the data from the file

   for x in r:
      __________________ # 3 statement

   A=A+1
f.close()
print("A or a: ", A)

1. Which of the following commands is used to open the file "Story.txt"? (marked as #1 in the Python code)
   a. f = open("story.txt","w")
   b. f = open("story.txt","r")
   c. f = open("story.txt","r+")
   d. f = open("story.txt","rb")

   Correct answer: b. f = open("story.txt","r")

2. Which of the following commands is used to read the data from the file, Story.txt? (marked as #2 in the Python code)
   a. f.read(20)
   b. f.read()
   c. f.write(L,F)
   d. f=pickle.dump(L)

   Correct Answer b. f.read()

3. Which of the following commands is used to compare alphabets of A (include small cases 'a' too).
   a) if x==’A’ or x==”a”:
   b) if x==’A’ or ”a”:
   c) if x=’A’ or x=”a”:
   d) if x in ’A’ or ”a”:

   Correct answer: a) if x==’A’ or x==”a”:
### NAME OF THE TEACHER

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<tr>
<td>7</td>
<td>Mr VIPIN KUMAR</td>
<td>ONGOLE  seek and tell methods, manipulation of data in a text file</td>
</tr>
</tbody>
</table>

### MULTIPLE CHOICE QUESTIONS

1. Which function is used to change the position of the File Handle to a given specific position.
   a. .seek()  
   b. read()   
   c. tail()   
   d. write()  
   Ans. A

2. Seek() function with negative offset only works when file is opened in -------- mode.
   a. read mode   
   b. write mode  
   c. binary mode 
   d. All of these
   Ans. C

3. What is the use of seek() method in files?
   a) sets the file’s current position at the offset  
   b) sets the file’s previous position at the offset  
   c) sets the file’s current position within the file  
   d) none of the mentioned  
   Ans. A

4. How do you get the current position within the file?
   a) fp.seek()  
   b) fp.tell()  
   c) fp.loc    
   d) fp.pos    
   Ans. B

5. How do you change the file position to an offset value from the start?
   a) fp.seek(offset, 0)  
   b) fp.seek(offset, 1)  
   c) fp.seek(offset, 2)  
   d) none of the mentioned  
   Ans. A
<table>
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<th></th>
<th>Question</th>
<th>Options</th>
<th>Answer</th>
</tr>
</thead>
</table>
| 6 | What happens if no arguments are passed to the seek function?          | a) file position is set to the start of file  
b) file position is set to the end of file  
c) file position remains unchanged  
d) error | D      |
| 7 | If we open the file in read mode then the initial value of tell() is   | a. -1  
b. 0  
c. 1  
d. End of the file | A      |
| 8 | How many arguments passed to the tell()?                                | a. 0  
b. 1  
c. 2  
d. variable number of arguments | A      |
| 9 | Which is the correct statement with respect of seek() function?         | a. 0: sets the reference point at the beginning of the file  
b. 1: sets the reference point at the current file position  
c. 2: sets the reference point at the end of the file  
d. All of these | D      |
| 10| What is the use of seek() method in files()?                            | a. sets the file’s current position at the offset  
b. sets the file’s previous position at the offset  
c. sets the file’s current position within the file  
d. none of the mentioned | A      |
<table>
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<tr>
<th>Case Study Questions (R)</th>
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<tr>
<td><strong>1</strong> What are the two built-in functions to read a line of text from standard input, which is by default the keyboard?</td>
</tr>
<tr>
<td>A. Raw_input</td>
</tr>
<tr>
<td>B. Input</td>
</tr>
<tr>
<td>C. Read</td>
</tr>
<tr>
<td>D. Scanner</td>
</tr>
<tr>
<td>Answer. A and B</td>
</tr>
<tr>
<td><strong>2</strong> Which of the following statements correctly explain the function of <code>tell()</code> method?</td>
</tr>
<tr>
<td>A. tells the current position within the file.</td>
</tr>
<tr>
<td>B. indicates that the next read or write will occur at that many bytes from the beginning of the file.</td>
</tr>
<tr>
<td>C. move the current file position to a different location.</td>
</tr>
<tr>
<td>D. it changes the file position only if allowed to do so else returns an error.</td>
</tr>
<tr>
<td>Answer. A, and B</td>
</tr>
<tr>
<td><strong>3</strong> Which of the following statements correctly explain the function of <code>seek()</code> method?</td>
</tr>
<tr>
<td>A. tell the current position within the file.</td>
</tr>
<tr>
<td>B. indicate that the next read or write occurs from that position in a file.</td>
</tr>
<tr>
<td>C. determine if you can move the file position or not.</td>
</tr>
<tr>
<td>D. move the current file position to a different location at a defined offset.</td>
</tr>
<tr>
<td>Answer. D</td>
</tr>
<tr>
<td><strong>4</strong> Which of the following command is used to open a file “c:\temp.txt” in read-mode only?</td>
</tr>
<tr>
<td>A. <code>infile = open(&quot;c:\temp.txt&quot;, &quot;r&quot;)</code></td>
</tr>
<tr>
<td>B. <code>infile = open(&quot;c:\temp.txt&quot;, &quot;r&quot;)</code></td>
</tr>
<tr>
<td>C. <code>infile = open(file = &quot;c:\temp.txt&quot;, &quot;r+&quot;)</code></td>
</tr>
<tr>
<td>D. <code>infile = open(file = &quot;c:\\temp.txt&quot;, &quot;r+&quot;)</code></td>
</tr>
<tr>
<td>Answer. B</td>
</tr>
<tr>
<td><strong>5</strong> To read the next line of the file from a file object <code>fobj</code>, we use:</td>
</tr>
<tr>
<td>(a) <code>fobj.read(2)</code></td>
</tr>
<tr>
<td>(b) <code>fobj.read()</code></td>
</tr>
<tr>
<td>(c) <code>fobj.readline()</code></td>
</tr>
<tr>
<td>(d) <code>fobj.readlines()</code></td>
</tr>
<tr>
<td>Answer. C</td>
</tr>
<tr>
<td><strong>6</strong> What happens if no arguments are passed to the seek function?</td>
</tr>
<tr>
<td>a) file position is set to the start of file</td>
</tr>
<tr>
<td>b) file position is set to the end of file</td>
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<tr>
<td>Q</td>
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<td>---</td>
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</tbody>
</table>
| 7 | What does the `<readlines()>` method returns? | A. str  
B. a list of lines  
C. list of single characters  
D. list of integers | B |
| 8 | Which of the following command is used to open a file “c:\temp.txt” in append-mode? | A. `outfile = open("c:/temp.txt", "a")`  
B. `outfile = open("c:\temp.txt", "rw")`  
C. `outfile = open("c:\temp.txt", "w+")`  
D. `outfile = open("c:\temp.txt", "r+")`  
E. `outfile = open("c:\temp.txt", "a")` | A and E |
| 9 | 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()` | A |
| 10 | Which of the following functions can be used to check if a file “logo” exists? | A. `os.path.isfile(logo)`  
B. `os.path.exists(logo)`  
C. `os.path.isfile(logo)`  
D. `os.isFile(logo)` | C |
**NAME OF THE TEACHER**

Mrs N SUMA

**KV**

NO1 GOLKONDA

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**TOPIC ALLOTTED**

Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file.

**MULTIPLE CHOICE QUESTIONS**

1. If a file is opened for reading, which of the following statements is not true?
   - a. The file must exist on the disk on the specified path
   - b. If the file exists at the specified path, the file is successfully opened.
   - c. The file even if at a different location on disk other than the specified path, will get opened.
   - d. Python gives error if the file does not exist at the specified path.

   **Answer:** c) The file even if at a different location on disk other than the specified path, will get opened.

2. To read 24 characters from a file object `infi`, we use
   - a. `infi.read()`  
   - b. `infi.read(24)`  
   - c. `infi.readline()`  
   - d. `infi.readlines`

   **Answer:** b) `infi.read(24)`

3. The `readlines()` method returns__________
   - a. a str  
   - b. a list of integers  
   - c. a list of single characters  
   - d. a list of lines

   **Answer:** d) a list of lines.

4. Which of the following is not a valid mode to open a file.
   - a. ab  
   - b. rw  
   - c. wb  
   - d. w+

   **Answer:** b) rw

5. Which of the following functions do you use to write data in the binary format?
   - a. `Write()`  
   - b. `output()`  
   - c. `dump()`  
   - d. `send()`

   **Answer:** c) `dump()`.

6. Which of the following command is used to open a file “c:\path.txt” in read mode only?
   - a. `Fin=open("c\path.txt","r")`  
   - b. `Fin=open("c\path.txt","r")`
|   | Fin=open(file="c:\path.txt","r+")  
|   | d. fin=open(file="c:\path.txt","r+")  
|   |swer : fin=open("c:\path.txt","r")  
| 7 | Which of the following is not a correct statement for binary files?  
|   | a) Easy for carrying data into buffer  
|   | b) Much faster than other file systems  
|   | c) Characters translation is not required  
|   | d) Every line ends with new line character ‘\n’  
|   | Answer : d) Every line ends with new line character ‘\n’  
| 8 | Which of the following commands can be used to read the entire contents of a file as a string using the file object <tmpfile>?  
|   | a. tmpfile.read(n)  
|   | b. tmpfile.read()  
|   | c. tmpfile.readline()  
|   | d. tmpfile.readlines()  
|   | Answer : b. tmpfile.read()  
| 9 | Which of the following command is used to open a file “c:\temp.txt” for writing in binary format only?  
|   | a. outfile = open("c:\temp.txt", “w”)  
|   | b. outfile = open("c:\temp.txt", “wb”)  
|   | c. outfile = open("c:\temp.txt", “w+”)  
|   | d. outfile = open("c:\temp.txt", “wb+”)  
|   | Answer : b. outfile = open("c:\temp.txt", “wb”)  
| 10 | Trying to open a binary file using a text editor will show:  
|   | a. Garbage values  
|   | b. ASCII values  
|   | c. Binary character  
|   | d. Unicodes  
|   | Answer : a. Garbage values
**CASE STUDY QUESTIONS (R)**

1. Ms. Suman is working on a binary file and wants to write data from a list to a binary file. Consider list object as l1, binary file suman_list.dat, and file object as f.
   i) Which of the following can be the correct statement for her?
      a) `f = open("suman_list","wb"); pickle.dump(l1,f)`
      b) `f = open("suman_list","rb"); l1=pickle.dump(f)`
      c) `f = open("suman_list","wb"); pickle.load(l1,f)`
      d) `f = open("suman_list","rb"); l1=pickle.load(f)`
      Correct Answer: a) `f = open("suman_list","wb"); pickle.dump(l1,f)`
   ii) Which option will be correct for reading file for suman?
      a) `f = open("suman_list","rb")`
      b) `f = open("suman_list","r")`
      c) `f = open("suman_list","r+")`
      d) `f = open("suman_list","ab")`
      Correct Answer: a) `f = open("suman_list","rb")`
   iii) In which of the file mode existing data will be intact in binary file?
      a) a
      b) ab
      c) w
      d) wb
      Correct Answer: b) ab
   iv) Which one of the following is correct statement?
      a) import – pickle
      b) pickle import
      c) import pickle
      d) All of the above
      Correct Answer: c) import pickle
   v) What are the binary files used for?
      a. It is used to store data in the form of bytes.
      b. To store data
      c. To look folder good
      d. None of these
      Correct Answer: a) It is used to store data in the form of bytes

2. Ms. Sejal is working on the sports.dat file but she is confused about how to complete the code to read the data from the binary file. Suggest a suitable line for her to fulfil her.
   ____________     # Statement 1
   def sports_read ():
      f1 = ____________     # Statement 2
      ____________         # Statement 3
      print(data)
      f1. close ()
sports.read()  
   i) Identify the suitable code for blank space in line marked as Statement-1.
a. pickle import  
b. import pickle  
c. import.pickle  
d. None of these  
Correct Answer : b) import pickle  
ii ) Identify the suitable code for blank space in line marked as Statement-2.

a. open("sports.dat","wb")  
b. open("sports.dat","r")  
c. open("sports.dat","rb")  
d. None of these  
Correct Answer : c)  
iii ) Identify the suitable code for blank space in line marked as Statement-3.

a. data = pickle.load(f1)  
b. data = pickle.dump(f1)  
c. data = pickle.load(f)  
d. data = pickle.dump(f)  
Correct Answer: a) data = pickle.load(f1)  
iv ) What is the description of `r+b` in binary mode? 

a. read and write  
b. write and read  
c. read only  
d. none of these  
Correct Answer : a) read and write  
v )Which of the following file modes will not delete the existing data in binary file ? 

a. wb  
b. w  
c. a  
d. ab  
Correct Answer : d) ab  

3  
Saritha is trying to add data onto a existing binary file and is facing difficulty in completing the code. Help her to fill the gaps in the code.  

Incomplete Code:  

import pickle  

print("WORKING WITH BINARY FILES")

# Statement 1

recno=1  

print ("Enter Records of Employees")

print()
#taking data from user and dumping in the file as list object

while True:
    print("RECORD No.", recno)
    eno=int(input("Employee number : "))
    ename=input_______________  # Statement 2
    ebasic=int(input("Basic Salary : "))
    allow=int(input("Allowances : "))
    totsal=ebasic+allow
    print("TOTAL SALARY : ", totsal)
    edata=[eno,ename,ebasic,allow,totsal]
    pickle.dump(_____________)  # Statement 3
    ans=input("Do you wish to enter more records (y/n)? ")
    recno=recno+1
    if ans.lower()=='n':
        print("Record entry OVER ")
        print()
        break  # retrieving the size of file
    print("Size of binary file (in bytes): ",
    bfile.tell())
    ________()  # Statement 4

i ) To open the file for writing the data in line marked as Statement-1.
   a. bfile=open("empfile.dat","ab")
   b. bfile=open("empfile.dat","a")
   c. bfile=open("empfile.dat","wb")
   d. bfile=open("empfile.dat","w")
   **Correct Answer :** a) bfile=open("empfile.dat","ab")

ii ) To accept employee name from the user in line marked as Statement-2.
   a. input("Employee Name : ")
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</table>
| b. | input(Employee Name :)
| c. | input("Employee Name ")
| d. | None of these
| **Correct Answer :** a | input("	Employee Name : ")

iii ) Identify the suitable code for blank space in line marked as Statement-3.

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<tbody>
<tr>
<td>a.</td>
<td>edata,bfile()</td>
</tr>
<tr>
<td>b.</td>
<td>edata,bfile</td>
</tr>
<tr>
<td>c.</td>
<td>data,bfile</td>
</tr>
<tr>
<td>d.</td>
<td>edata,file</td>
</tr>
<tr>
<td><strong>Correct Answer:</strong></td>
<td>edata,bfile</td>
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</table>

iv ) Identify the suitable code for blank space in line marked as Statement-4.

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</table>
| a. | bfile.close()
| b. | bfile.close |
| c. | file.close() |
| d. | none of these |
| **Correct Answer :** | bfile.close() |

v ) Which of the following is the correct syntax to read from a file using load function ?

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<table>
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<tbody>
<tr>
<td>A.</td>
<td>pickle.load(&lt;filehandle&gt;)</td>
</tr>
<tr>
<td>B.</td>
<td>&lt;object&gt; - load.pickle(&lt;filehandle&gt;)</td>
</tr>
<tr>
<td>C.</td>
<td>&lt;object&gt; - pickle.load(&lt;filehandle&gt;)</td>
</tr>
<tr>
<td>D.</td>
<td>All of the above</td>
</tr>
<tr>
<td><strong>Correct Answer :</strong></td>
<td>c</td>
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4

A Binary file Stock.dat has a structure [pno,pname,qty,price]. A user defined function `createfile()` to input data for 3 records and add to stock.dat. There are some blanks help in filling the gaps in the code:

**Incomplete Code :**

```
import ___________  # Statement 1

def createfile():
    File=open("d:\Stock.dat","____")  #Statement 2
    pno=input("Enter product no:")
    pname= input("Enter product name:")
    qty= input("Enter product quantity:")
    price= input("Enter product price:")
    record=[pno,pname,qty,price]
```
# Statement 3

Print("Record inserted")

File.close()

Createfile()

i ) Identify the suitable code for blank space in line marked as Statement-1.
   a. csv
   b. CSV
   c. pickle
   d. PICKLE
   **Correct Answer :** c) pickle

ii ) Identify the suitable code for blank space in line marked as Statement-2.
   a. wb
   b. ab
   c. w
   d. a
   **Correct Answer :** b) ab

iii ) select correct statement to write data into file for Statement-3.
   a. pickle.dump(record,file)
   b. pickle.dump(record)
   c. pickle.dump(file,record)
   d. pickle.load(record,file)
   **Correct Answer: a) pickle.dump(record,file)**

iv ) Which method is used for object deserialization ?
   A. Pickling
   B. Unpickling
   C. All of the above
   D. None of the above
   **Correct Answer : b) Unpickling**

V ) What is the last action that must be performed on a file? *
   a. save
   b. close
   c. end
   d. write
   **Correct Answer : b) close**
A binary file “STUDENT.DAT” has structure [admission_number, Name, Percentage]. Write a function countrec() in Python that would read contents of the file “STUDENT.DAT” and display the details of those students whose percentage is above 75. Also display number of students scoring above 75%.

```python
# line1
pickle
def countrec():
    fobj=open("STUDENT.DAT","rb") # line2
    num = 0
    try:
        while True:
            rec=pickle.load(fobj)
            if rec[2]>75:
                num = num + 1
                print(rec[0],rec[1],rec[2])
    except:
        fobj.close()
    return num
```

i ) Identify the suitable code for blank space in line-1.
   a. import  
   b. IMPORT  
   c. Import  
   d. None of the above

Correct Answer: a) import

ii ) Identify the suitable code for blank space in line 2.
   a. STUDENT.DAT  
   b. STUDENTS.DAT  
   c. SCHOOL.DAT  
   d. None of the above

Correct Answer: a) STUDENT.DAT

iii ) select correct keyword to fill for line-3.
   a. True  
   b. False  
   c. true  
   d. TRUE

Correct Answer: a) True

Ms.Anitha is unable understand what can be the output of the following code.Help her in getting the output.

Import pickle
L=[20,40,50]
f=open("list.dat","wb")
Pickle.dump(l,f)
Print("Data added successfully")
f.close()

f=open("list.dat","rb")
data=pickle.load(f)
f.close()
print(data)

Data added successfully
[20,40,50]
Data added successfully
[20,30,50]

Correct Answer: a) Data added successfully

[20,40,50]

A binary file “salary.DAT” has structure [teacherid, teacher name, salary]. Complete the code in the blanks so that it would read contents of the file “salary.DAT” and display the details of those teachers whose salary is above 20000.

import pickle

try:
    print("tr id\t tr Name\t tr Sal")
    while True:
        rec=_________.load(fobj)  #line2
        if rec[2]>________:  #line3
            print(rec[0],"\tt",rec[1],"\tt",rec[2])
        except:
            close()  #line 4

To open the file for writing the data in line marked as line-1.

a. fobj=open("salary.dat","rb")
1. Which of the following File Modes creates a new file, if the file does not exist?
   a. "r"
   b. "bw"
   c. "w"
   d. "a"
   Correct Answer: c) `w`

2. What is true about Binary files?
   a. They are not human readable
   b. the file extension is .dat
   c. the file stores same format as held in memory.
   d. All of the above
   Correct Answer: d) All of the above

---

```python
b. fobj=open("salary.dat","r")
c. fobj=open("salary.dat","r+")
d. fobj=open("data.dat","rb")
Correct Answer: a) fobj=open("data.dat","rb")
```

---

```python
ii ) The module used in line2
a. PICKLE
b. pickling  
c. pickle
 d. None of these
Correct Answer: c) pickle
```

```python
iii ) Identify the salary to be checked in the code marked as line-3.
a. 50000  
b. 20000  
c. 24000  
d. 10000
Correct Answer: b) 20000
```

---

```python
iv ) Which of the following File Modes creates a new file, if the file does not exist?
(choose one/more)
a. ‘r’
b. ‘bw’
c. ‘w’
d. ‘a’
Correct Answer: c) w
```

---

```python
v ) What is true about Binary files
a. They are not human readable
b. the file extension is .dat
   c. the file stores same format as held in memory.
   d. All of the above
Correct Answer: d) All of the above
```

---

Mr. Rohan wants to modify salary of employee having a structure[eid, ename, salary], but unable to fill the gaps in the code. Help him to complete the code.

```python
# Import pickle
f = open('d:/student.dat', 'rb')
reclst = []

r=___________________________  # line 1 code to ask employee id
m=int(input("enter correct salary"))
while True:
    try:
```

---
rec = pickle.load(f)
rec.append(rec)  # line 2 statement to add items in list at the end one by one
except EOFError:
    break
f.close()
for i in range (len(reclst)):
    if reclst[i]['eid']==r:
        reclst[i]['salary'] = m
f = open('d:/student.dat','wb')  # line 3 mode to be used to copy the data
for x in reclst:
    pickle.dump(x,f)
f.close()

i ) Identify the code in line1.
   a. int(input(“Enter employee id”))
   b. int(“Enter employee id”)
   c. int(INPUT(“Enter employee id”))
   d. None of the above
Correct Answer : a) int(input(“Enter employee id”))

ii ) The module used in line2
   a. PICKLE
   b. pickling
   c. pickle
   d. None of these
Correct Answer : c) pickle

iii ) Fill in the code marked as line-3.
   a. w
   b. wb
   c. r
   d. rb
Correct Answer: b) wb

A binary file sports.dat contains information in the following structure:
   ( Event, Participant )

A code is shown below which is incomplete that would read contents from the
sports.dat and creates a file named Athletic.dat copying only those records from sports.dat where the event name is "Athletics".

```python
import pickle

ath ( f1 , f2 ) :

    l = pickle.load ( f1)
    for t in l :
        if ( t [ 0 ] == “________________” ) : #line 1
            pickle.__________ ( t , f2 ) #line 2

f1 = open ( “ sports.dat ” , “ rb ” )
f2 = open ( “ athletics.dat ” , “ wb ” )
f.close()
f1.close()

i ) Identify the code in line1.
a. Athletics
b. Sports
c. Games
d. None of the above
Correct Answer : a) Athletics

ii ) The function to copy the data into other binary file2
a. DUMP
b. close
c. dump
d. None of these
Correct Answer : c) dump

iii ) Information stored on a storage device with a specific name is called as __________.
a. array
b. dictionary
c. file
d. tuple
Correct Answer: c) file

iv) Which of the following is not a valid mode to open a file?
a . ab
b. rw
c . r+
d.w+
Correct Answer: b) rw
A function `searchprod(pc)` in python is created to display the record of a particular product from a file `product.dat` whose code is passed as an argument. Structure of product contains the following elements [product code, product price]. There is some problem in completing the code, help to finish the code:

```python
def searchprod(pc):
    f = open('d:/product.dat','rb')  # line1
    flag = False
    pc=input("Enter product code to be searched")
    while True:
        try:
            rec = pickle.load(f)
            if rec["pcode"] == pc:
                # line2
                print('Product code:',rec["pcode")
                print('Price:',rec["price"])
                flag = True
            except EOFError:
                break
        if flag == False:
            print('No Records found')
        f.close()
```

i) Identify the method in line1.
   a. close
   b. open
   c. OPEN
   d. None of the above
   **Correct Answer**: b) open

ii) The variable used to accept product code entered by the user for the line2
   a. pcode
   b. pc
   c. code
   d. None of these
   **Correct Answer**: b) pc
<table>
<thead>
<tr>
<th>SNO</th>
<th>NAME OF THE TEACHER</th>
<th>KV</th>
<th>TOPIC ALLOTTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Ms TOM JOSINA</td>
<td>TIRUMALAGIRI</td>
<td>import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file</td>
</tr>
</tbody>
</table>

**MULTIPLE CHOICE QUESTIONS**

1. __________ is the process of converting Python object hierarchy into a byte stream so that it can be written into a file.
   
   Pickling
   Unpickling
   Dumping
   Loading
   
   Answer: a

2. _______ is the process of reading from a binary file
   
   Pickling
   Unpickling
   Dumping
   Loading
   
   Answer: b

3. _______ of pickle module will unpickle the data coming from the binary file.
   
   a) load()
   b) dump()
   c) writer()
   d) insert()
   
   Answer: a
4. _________ of pickle module will pickle the data in the binary file.
   a) load()
   b) dump()
   c) writer()
   d) insert()

   Answer: b

5. _________ will return the current position of file pointer in the file
   seek()
   search()
   tell()
   print()

   Answer: c

6. ________ places the file pointer at the specified position in the open file.
   seek()
   search()
   tell()
   print()

   Answer: a

7. F.seek(20,0) will move the file pointer 20 bytes in forward direction from beginning of file.
   State True or False
   a) True
   b) False

   Answer: a

8. F1.seek(-5,1) will move the file pointer 5 bytes backwards from end of file.
   State True or False
<table>
<thead>
<tr>
<th>Question</th>
<th>Statement</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Syntax of seek function in Python is <code>myfile.seek(offset, reference_point)</code> where <code>myfile</code> is the file object. What is the default value of <code>reference_point</code>?</td>
<td>a) 0</td>
</tr>
<tr>
<td>10</td>
<td>Which of the following statements is true?</td>
<td>b) pickling is used for object serialization</td>
</tr>
</tbody>
</table>

**CASE STUDY QUESTIONS (R)**
Archit wants to create and display a Binary file named “Myfile.DAT”. Complete the missing code to open, create and display the file.

```python
import __________
#Line1

double=[]

for i in range(1,11):
    double.append(2*i)

fo=__________________
#Line2

pickle.________________
#Line 3

fo.close()

fin=___________________
#Line4

result=________________
#Line 5

fin.close()

print(" The content of file ":, result)
```

1. Name the module he should import in Line 1.
   a) csv
   b) pickle
   c) binary
   d) bin
   Answer : b

2. Fill in the blank in Line 2 to open the file for writing the contents of the file.
   a) open("Myfile.dat","w")
   b) open("Myfile.dat","r")
   c) open("Myfile.dat","wb")
   d) open("Myfile.dat","rb")
   Answer : c

3. Fill in the blank in Line 3 with the function to write entire contents to file.
   a) load(double,fo)
   b) dump(double,fo)
   c) writer(double)
   d) insert(double,fo)
   Answer : b
4. Fill in the blank in Line 4 to open the file for displaying contents of file.

   a) open("Myfile.dat","w")
   b) open("Myfile.dat","r")
   c) open("Myfile.dat","wb")
   d) open("Myfile.dat","rb")

Answer: d

5. Fill in the blank in Line 5 read the contents of the file.

   a) pickle.read(fin)
   b) pickle.readline(fin)
   c) pickle.readlines(fin)
   d) pickle.load(fin)

Answer: d
Rohith has been given the following incomplete code for entering his details (Name, contact number and address) to a file “Personal.DAT” and display the contents. Complete the missing code to open, create and display the file.

```python
import ____________  #Line1
mydata=[]
name=input(“Enter Name:”)
contactno=int(input(“Enter contact number:”))
address=input(“Enter address:”)
mydata=[name,contactno,address]
f1=__________________  #Line2
pickle.________________  #Line 3
f1.close()
f2=___________________  #Line4
result=________________  #Line 5
f2.close()
print(“ The content of file :”, result)
```

1. Name the module he should import in Line 1.
   a) csv
   b) pickle
   c) binary
   d) bin
   Answer : b

2. Fill in the blank in Line 2 to open the file for writing the contents of the file.
   a) open(“Personal.dat”,”w”)
   b) open(“Personal.dat”,”r”)
   c) open(“Personal.dat”,”wb”)
   d) open(“Personal.dat”,”rb”)
   Answer : c

3. Fill in the blank in Line 3 with the function to write entire contents to file.
a) load(mydata,f1)
b) dump(mydata,f1)
c) write(mydata)
d) insert(mydata,f1)

Answer: b

4. Fill in the blank in Line 4 to open the file for displaying contents of file.

a) open("Personal.dat","w")
b) open("Personal.dat","r")
c) open("Personal.dat","wb")
d) open("Personal.dat","rb")

Answer: d

5. Fill in the blank in Line 5 read the contents of the file.

a) pickle.read(f2)
b) pickle.readline(f2)
c) pickle.readlines(f2)
d) pickle.load(f2)

Answer: d
You are provided with some incomplete code for entering student’s details (Rollno, Name and marks) to a file “Student.DAT” and display the contents. Complete the missing code to open, create and display the file.

```python
import ____________  #Line1

data=[]
rollno=int(input("Enter Roll number."))
name=input("Enter Name.")
marks=int(input("Enter mark."))
data=[rollno,name,marks]
 fout= open("Student.dat","wb")
pickle.___________  #Line 2
fout.close()

fin=______________  #Line3
output=______________  #Line 4
fin.close()

if ____________>=33:  #Line5
    print(output[1]," passed")
else:
    print(output[1]," failed")
```

1. Name the module to import in Line 1.
   a) csv
   b) pickle
   c) binary
   d) bin
   Answer : b

2. Fill in the blank in Line 2 with the function to write entire contents to file.
   a) load(data,fout)
b) dump(data,fout)
c) writer(data)
d) insert(data,fout)
Answer: b

3. Fill in the blank in Line 3 to open the file for displaying contents of file.

   a) open("Student.dat","w")
   b) open("Student.dat","r")
   c) open("Student.dat","wb")
   d) open("Student.dat","rb")

   Answer: d

4. Fill in the blank in Line 4 read the contents of the file.

   a) pickle.read(fin)
   b) pickle.readline(fin)
   c) pickle.readlines(fin)
   d) pickle.load(fin)

   Answer: d

5. Fill in the blank in Line 5 to display he status of students(passed/failed) based on their mark.

   a) Output[0]
   b) Output[1]
   c) Output[2]
   d) output

   Answer: c
Ritesh wants to perform the following binary file operations, as a part of his assignment, with the help of two user defined functions/modules:

a. **AddEmp()** to create a binary file called `Employee.DAT` containing employee information – employee number, name and salary.

b. **ViewEmp()** to display the name and salary of employees who are getting Rs.50000 above as salary. The function should also display the average salary.

Help him in filling incomplete code.

```python
import pickle
def AddEmp():

    #Line1 to open the binary file to write data
    F = open("Employee.DAT","wb")

    while True:
        Empno = int(input("Employee number: "))
        Name = input("Name: ")
        Salary = int(input("Enter Salary: "))
        L = [Empno, Name, Salary]

        #Line2 to write the list L into the file
        F.write(pickle.dumps(L))

        Choice = input("Enter more (y/n): ")
        if Choice in "nN":
            break

    F.close()

def ViewEmp():
    Total=0
    Countrec=0
    C50K=0

    F=open("Employee.DAT","rb")

    while True:

        try:
            #Line3 to read from the file
            R = pickle.load(F)
            Countrec+=1
            Total+=R[2]
            if _______ > 50000:  #Line4
                print(R[1],"has salary ",R[2])

            C50K+=1
```

```
except:
    break
if C50K==0:
    print("No employee with salary more than 50000")
    average=______________ #Line5 to find average salary
    print("average Salary = ",average)

AddEmp()

ViewEmp()

1. Write statement #Line1, to open the file “Employee.DAT” for writing only in binary format?
   a) F= open("Employee.DAT","wb")
   b) F= open("Employee.DAT","w")
   c) F= open("Employee.DAT","wb+")
   d) F= open("Employee.DAT","w+")
   Answer : a

2. Write statement, #Line2, to write the list L into the binary file, Employee.DAT?
   a) pickle.write(L,f)
   b) pickle.write(f, L)
   c) pickle.dump(L,F)
   d) f=pickle.dump(L)
   Answer : c

3. Write statement, #Line3, to read each record from the binary file Employee.DAT?
   a) R = pickle.load(F)
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>b)</td>
<td>pickle.read(r,f)</td>
</tr>
<tr>
<td>c)</td>
<td>r = pickle.read(f)</td>
</tr>
<tr>
<td>d)</td>
<td>pickle.load(r,f)</td>
</tr>
</tbody>
</table>

Answer : a

4. Write statement, #Line4, to find employees who are getting salary more than Rs.50000.
   a) R[0]
   b) R[1]
   c) R[2]
   d) R[3]

Answer : c

5. Write statement, #Line5, to find average salary of employees
   a) Total/countrec
   b) Total/C50K
   c) Total/Countrec
   d) average(Total)

Answer : c
Anand, a software developer, is asked to help a librarian to find some details of books in his library. The book information is stored in a binary file `Books.DAT'. Create two user defined functions/modules:

a. **AddBook()** to create a binary file called `Books.DAT` containing Book information – Book name, Author and Price.

b. **ViewBook()** to display the name, Author and price of books which are more than Rs.350 in price. The function should also display the average price of books.

Try to fill the incomplete code to get required information for librarian.

```python
import pickle

def AddBook():
    #Line1 to open the binary file to write data
    while True:
        Name = input("Book Name : ")
        Author= input("Author Name :")
        Price = int(input("Enter Book Price :"))
        Lst= [Name, Author, Price]
        #Line2 to write the list Lst into the file
        Choice = input("enter more (y/n): ")
        if Choice in "nN":
            break
    Fp.close()

def ViewBook():
    Total=0
    Count=0
    C=0
    F=open(________________) #Line3 to open file for reading
    while True:
        try:
            __________ #Line4 to read from the file
            Count+=1
            Total+=Row[2]
            if ______ > 350: #Line5
```

print("Price of ",Row[1],"= ",Row[2])
C+=1
except:
    break
if C==0:
    print("All books are having price less than 350")
    avgprice=Total/Count
    print("Average Price = ",avgprice)
F.close()
AddBook()
ViewBook()

1. Fill in the blank in Line1, to open the file “Books.DAT” for writing in binary format?
   a) Fp= open("Books.DAT","w")
   b) Fp= open("Books.DAT","wb")
   c) Fp= open("Books.DAT","wb+")
   d) Fp= open("Books.DAT","w+")
   Answer : b

2. Fill in the blank in Line2, to write the list Lst into the binary file, Books.DAT?
   a) pickle.write(Lst,Fp)
   b) pickle.write(fp, Lst)
   c) pickle.dump(Lst,Fp)
   d) fp=pickle.dump(Lst)
   Answer : c

3. Fill in the blank in Line3, to open the file “Books.DAT” for reading
   a) F= open("Books.DAT","r")
   b) F= open("Books.DAT","r+")
   c) F= open("Books.DAT","wb+")
   d) F= open("Books.DAT","rb")
   Answer : d

4. Fill in the blank in Line4, to read data from file.
   a) Row=pickle.load(Fp)
   b) Row=pickle.read(Fp)
c) Row=pickle.read(F)
d) Row=pickle.load(F)

Answer: d

5. Fill in the blank in Line 5 with suitable expression:
   a) Row[0]
   b) Row[1]
   c) Row[2]
   d) Row[3]

Answer: c
John, a student of class 12 student wants to complete a search() function to search in a pickled file Competition.dat.

- File contains details of prizes in a competition [Rollno,name, prize] format.
- File contains details of 10 participants' details

Arun has to complete the code and print details of prize 1.

def search():
    f = open("Competition.dat", ________) # Line
    while True:
        rec = pickle.____________ # Line -3
        if(_____________):
            print(rec)
        except:
            pass

1. Fill in the blank in Line1, to open the file “Competition.DAT” for reading in binary format?
   a) w
   b) r
   c) wb
   d) rb

   Answer : d

2. Fill in the blank in Line2, to handle exceptions in statements
   a) except
   b) try
   c) handle
   d) statement

   Answer : b

3. Fill in the blank in Line3, to read the records.
   a) read(f)
   b) readline(f)
   c) load(f)
d) load()

Answer: c

4. Fill in the blank in Line 4, to read record from file.
   a) rec[0]==1
   b) rec[2]==1
   c) rec[prize]==1
   d) rec["prize"]==1

Answer: b

5. Fill in the blank in Line 5 to close the file pointer:
   a) f.end()
   b) f.close()
   c) f=close()
   d) close(f)

Answer: b
import pickle

def createFile():
    fobj=_______________  #Line1 to open file for entering data to file
    BookNo=int(input("Book Number : "))
    Book_name=input("Name :")
    Author = input("Author: ")
    Price = int(input("Price : "))
    rec=[BookNo,Book_Name,Author,Price]
    _____________  #Line2 to store data to file
    fobj.close()

def CountRec(Author):
    fobj=_______________  #Line3 to open file for searching
    num= 0
    try:
        while True:
            rec=_____________  # Line4 to read a record
            if Author==______:  #Line5 to check
                num = num + 1
    except:
        fobj.close()
    return num

1. Fill in the blank in Line1, to open the file “Books.DAT” for writing in binary format?
   a) open("Book.dat","ab")
   b) open("Books.DAT","wb")
   c) open("Books.DAT","a")
   d) open("Books.DAT","w+")

   Answer : a

2. Fill in the blank in Line2, to write the list rec into the binary file, Books.DAT?
   a) pickle.write(rec)
   b) pickle.dump(rec,fobj)
   c) pickle.dump(fobj,rec)
   d) fobj=pickle.dump(rec)

   Answer : b

3. Fill in the blank in Line3, to open the file “Books.DAT” for searching.
   a) open("Book.dat","r")
   b) open("Book.dat","rb")
   c) open("Book.dat","wb")
   d) open("Book.dat","ab")

   Answer : b

4. Fill in the blank in Line4, to read record from file.
5. Fill in the blank in Line 5 with suitable expression:
   a) rec[0]
   b) rec[1]
   c) rec[2]
   d) rec[3]
   Answer: c

8. Neha, a software developer is asked to complete a search() function to search in a pickled file Book.DAT.
   · File contains details of Books [Bookno, Bname, Price] format.
   · File contains details of 10 Books’ details

Neha wants to complete the code and print details of Book with Book number 123.

```python
def search():
    fp= open("Book.dat", "rb")  # Line -1
    ____________:
        # Line -2
    while True:
        R = pickle.__________  # Line -3
        ____________:
            print(R)
    except:
        pass
        ____________  # Line -5
```

1. Fill in the blank in Line 1, to open the file “Book.DAT” for reading in binary format?
   a) w
   b) r
   c) wb
| 1. | Neha, a class 12 student is asked to write a binary file, “Admission.DAT”, for entering new admission student details and review the details when required. She faced some problems in statements and see if you can fill the missing code. | import pickle |
| 2. | Fill in the blank in Line2, to handle exceptions in statements | a) except  
    b) try  
    c) handle  
    d) statement |
| 3. | Fill in the blank in Line3, to read the records. | a) read(fp)  
    b) readline(fp)  
    c) load(fp)  
    d) load() |
| 4. | Fill in the blank in Line4, to read record from file. | a) R[0]==123  
    b) R[2]==123  
    c) R[Bookno]==123  
    d) R[“Bookno”]==123 |
| 5. | Fill in the blank in Line5 to close the file pointer: | a) fp.end()  
    b) fp.close()  
    c) fp=close()  
    d) close(fp) |
def newadmission():
    admnlst=[]
    fobj=open("Admission.dat","wb")  #Line1 to open file for entering data to file
    while True:
        AdmnNo=int(input("Admission Number : "))
        Stud_name=input("Name :")
        Fathername = input("Father’s name: ")
        Phone = int(input("Phone No : "))
        rec=[AdmnNo,Stud_Name,Fathername,Phone]
        admnlst.append(______)  #Line2 to add a record
        choice=input("Enter more y/n")
        if choice in "Nn":
            break
        ________________________  #Line3 to store data to file
        fobj.close()

def getRecords(AdmNo):
    fobj=_______________  #Line4 to open file for searching
    result=pickle.load(fobj)
    for rec in result:
        if rec[0]==____:  #Line5 to check for given admission number
            print(rec)
    fobj.close()

1. Identify missing code in Line1 so that file can add more information

   a)  w  
   b)  r  
   c)  wb  
   d)  rb  

   Answer : c

2. Identify missing object in Line2

   a)  fobj  
   b)  R  
   c)  rec  
   d)  admission  

   Answer : c

3. Fill in the necessary function in Line3, to input data to binary file.

   a)  pickle.dump("admnlst","fobj")  
   b)  pickle.dump(admnlst,fobj)  
   c)  pickle.dump("fobj","admnlst")
d) `pickle.dump(fobj, adminlst)`

Answer: b

4. Fill in the blank in Line 4, to read data from file.
   a) `open("Admission.dat","read")`
   b) `open("Admission.dat","r")`
   c) `open("Admission.dat","rd")`
   d) `open("Admission.dat","rb")`

Answer: d

5. Fill in the blank in Line 5 to check for given admission number:
   a) `AdmnNo`
   b) "AdmnNo"
   c) `AdmNo`
   d) "AdmNo"

Answer: c

10 I. Ananya, a class 12 student is asked to write a binary file, “Fees.DAT”, for entering fee details of students and review the details when required. She faced some problems in statements and see if you can fill the missing code.

```
import pickle
def feeEntry():
    Feelst=[]
    fobj=open("Fees.dat","\__")  #Line1 to open file for entering data to file while True:
    AdmnNo=int(input("Admission Number : "))
    Stud_name=input("Name :")
    Class = input("Enter Class: ")
    Fee = int(input("Enter Fee :"))
    rec=[AdmnNo,Stud_Name,Class,Fee]
    Feelst.append(______)  #Line2 to add a record
    choice=input("Enter more y/n")
    if choice in "Nn":  
        break
    ____________________  #Line3 to store data to file
    fobj.close()

def getRecords(AdmNo):
    fobj=______________  #Line4 to open file for searching
    result=pickle.load(fobj)
    for rec in result:
        if rec[0]==______:  #Line5 to check for given admission number
            print(rec)
    fobj.close()
```
1. Identify missing code in Line1 so that file can add more information
   a) w
   b) r
   c) wb
   d) rb

   Answer : c

2. Identify missing object in Line2
   a) fobj
   b) R
   c) rec
   d) admission

   Answer : c

3. Fill in the necessary function in Line3, to input data to binary file.
   a) pickle.dump("Feelst","fobj")
   b) pickle.dump(Feelst,fobj)
   c) pickle.dump("fobj","Feelst")
   d) pickle.dump(fobj,Feelst)

   Answer : b

4. Fill in the blank in Line4, to read data from file.
   a) open("Fees.dat","read")
   b) open("Fees.dat","r")
   c) open("Fees.dat","rd")
   d) open("Fees.dat","rb")

   Answer : d

5. Fill in the blank in Line5 to check for given admission number:
   a) AdmnNo
   b) “AdmnNo”
   c) AdmNo
   d) “AdmNo”

   Answer : c
<table>
<thead>
<tr>
<th>SNO</th>
<th>NAME OF THE TEACHER</th>
<th>KV</th>
<th>TOPIC ALLOTTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Mr ANAND GANESH</td>
<td>NO2 GOLKONDA</td>
<td>CSV file: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader( )</td>
</tr>
</tbody>
</table>

**MULTIPLE CHOICE QUESTIONS**

1. The character that separates values in csv files is called the ………
   - a) delimit
   - b) delimiter
   - c) delimited
   - d) delimits
   Ans: b)

2. The default delimiter of csv file is ……………
   - a) comma
   - b) colon
   - c) semicolon
   - d) hyphen
   Ans: a)

3. The file mode to open a csv file for reading as well writing is ………
   - a) r
   - b) rw
   - c) r+
   - d) rb
   Ans: c
<table>
<thead>
<tr>
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<th>The file mode to open a csv file for appending as well reading is ........</th>
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<td>4</td>
<td>w</td>
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<td></td>
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<td>a</td>
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<tr>
<td></td>
<td>a+</td>
</tr>
<tr>
<td></td>
<td>Ans: d</td>
</tr>
</tbody>
</table>

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<th>To specify a different delimiter while writing into csv file, ........ argument is used with csv.writer().</th>
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<td>delimit</td>
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<td>delimiter</td>
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<td>delimiteds</td>
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<td></td>
<td>Ans: b</td>
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</table>

<table>
<thead>
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<th></th>
<th>To cancel the EOL translation in csv file while writing the data ............ argument is used with open().</th>
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<tr>
<td>6</td>
<td>newline</td>
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<tr>
<td></td>
<td>next</td>
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<tr>
<td></td>
<td>open</td>
</tr>
<tr>
<td></td>
<td>EOL</td>
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<td></td>
<td>Ans: a</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th></th>
<th>To add data to an existing csv file, the mode of the file should be ........</th>
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<tbody>
<tr>
<td>7</td>
<td>w</td>
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<td>w+</td>
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<tr>
<td></td>
<td>a</td>
</tr>
<tr>
<td></td>
<td>a+</td>
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<tr>
<td></td>
<td>Ans: c</td>
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<tr>
<td>---</td>
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<td></td>
<td><strong>8</strong> CSV stands for ……</td>
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<tr>
<td></td>
<td>Cursor Separated Variables</td>
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<tr>
<td></td>
<td>Comma Separated Values</td>
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<td></td>
<td>Cursor Separated Values</td>
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<td>Cursor Separated Version</td>
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<td></td>
<td>Ans: b</td>
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<tr>
<td></td>
<td><strong>9</strong> Which module is used for working with CSV files in Python?</td>
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<tr>
<td></td>
<td>random</td>
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<td></td>
<td>statistics</td>
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<td>csv</td>
</tr>
<tr>
<td></td>
<td>math</td>
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<td></td>
<td>Ans: c</td>
</tr>
<tr>
<td></td>
<td><strong>10</strong> Every record in a CSV file is stored in reader object in the form of a list using which method?</td>
</tr>
<tr>
<td></td>
<td>writer()</td>
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<tr>
<td></td>
<td>append()</td>
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<td>reader()</td>
</tr>
<tr>
<td></td>
<td>list()</td>
</tr>
<tr>
<td></td>
<td>Ans: c</td>
</tr>
</tbody>
</table>

**CASE STUDY QUESTIONS (R)**

|   | Deepesh works as a programmer with Delta Technologies. He has been assigned the job of generating the salary of all employees using the file “employee.csv”. He has written a |
|   |   |
program to read the CSV file “employee.csv” which will contain details of all the employees. He has written the following code. As a programmer, help him to successfully execute the given task.

```python
import ________  # Line 1
def readCsvEmp( ) :  # to read data from the CSV file
    with ________('employees.csv', newline='') as f:  # Line 2
        reader = csv.______(f)  # Line 3
        data_list = ________ (reader)  # Line 4
        ________ (data_list)  # Line 5
```

(a) Name the module he should import in Line 1.
1. import csv
2. csv import
3. import
4. export csv

**Ans. 1.** import csv

(b) Write the method that he should use to open the file to read data from it.
1. read
2. open
3. close
4. append

**Ans. 2.** open

(c) Fill in the blank in Line 3 to read the data from a csv file.
1. read
2. readline
3. reader
4. writer

**Ans.3. reader**

(d) Fill in the blank in Line 4 with the method to convert the data read from the file into list.

1. list
2. sets
3. dictionary
4. tuple

**Ans.1. list**

2

Observe the following code and fill the blank in statement 1

```python
import csv
with _______ as f: #statement1
    r = csv.______(f) #statement2
    for row in ______: #statement3
        print(_____) #statement4
```

a. open("data.csv")
b. f=open("data.csv")
c. Both A & B are Correct
d. Both A & B are incorrect

**Ans:** a. open("data.csv")

3

Observe the following code and fill the blank in statement 2

```python
import csv
with _______ as f: #statement1
    r = csv.______(f) #statement2
    for row in ______: #statement3
        print(_____) #statement4
```

a. load
b. read()
c. reader()
d. readlines()

**Ans:** c. reader()
import csv

with _________ as f: #statement1
    r = csv.______(f) #statement2
for row in ______: #statement3
    print(_____) #statement4

a. F  
b. r  
c. r,f  
d. None of the above
Ans: b. r

5 Observe the following code and fill the blank in statement4
import csv
with _________ as f: #statement1
    r = csv.______(f) #statement2
for row in ______: #statement3
    print(_____) #statement4

a. r  
b. row  
c. f  
d. csv  
Ans:b. row

6 Legend sports wanted to store the number of prizes for each sport as a SPORTS.CSV file.
As a programmer help them to complete the task successfully.
import _______________ #Line 1
fh=______________  # Line 2
swriter = _______________(fh) #Line 3
ans='y'
i=1
while ans=='y':
    print("Record",i)
    sport=input("Sport name")
    prizes=int(input("Enter prizes won"))
    __________ # Line 4
    i=i+1
    ans=input("Want to enter records")
    fh._________________#Line 5

a) Name the module to be imported in Line 1.

1. .tsv
2. .csv
3. .py
4. .bin

Ans: 2. csv

b) Fill in line 2 to open the CSV file.

1. fh = open("sports.csv","w")
2. read("sports.csv","w")
3. fh = file("sports.csv","w")
4. fh = append("sports.csv","w")

Ans: 1. fh = open("sports.csv","w")
c) Write the correct statement to write the data into file in line 3.
1. writerows( )
2. writerow( )
3. writer( )
4. swriter = csv.csvwriter(fh)

Ans: 4. swriter = csv.csvwriter(fh)

d) Write the statement to write the records given as input from user in line 4.
1. swriter([sport,prizes])
2. swriter.writrrow([sport,prizes])
3. swriter_writrrow([sport,prizes])
4. swriterwritrrow([sport,prizes])

Ans: 2. swriter.writrrow([sport,prizes])

Krishna of class 12 is writing a program to read the details of Sports performance and store in the csv file “Sports.csv” delimited with a tab character. As a programmer, help him to achieve the task.

import ___________ # Line 1

f = open(“Sports.csv”,”a”)  

wobj = csv.______________ (f, delimiter = ‘\t’) # Line 2

wobj.writerow( ['Sport', 'Competitions', 'Prizes Won'])

ans = ‘y’
i = 1

while ans == 'y':
    print("Record :", i)
    sport = input("Sport Name :")
    comp = int(input("No. of competitions participated :"))
    prize = int(input("Prizes won:"))
    record = ____________________ # Line 3
    wobj.______________ (rec) # Line 4
    i += 1
    ans = input("Do u want to continue ? (y/n) :")

1. ____________ # Line 5

a) Name the module he should import in Line 1
1. tcs
2. tmp
3. bin
4. csv

**Ans : 4. Csv**

b) To create an object to enable to write in the csv file in Line 2
1. open
2. writer
3. file
4. read
Kumar is writing a program to create a CSV file “student.csv” which will contain rollno, name and age of some students. He has written the following code. As a programmer, help him to successfully execute the given task

| Ans: 2. writer |

| Ans: 2. writer |

| Ans: 3. [sport, comp, prize] |

c) To create a sequence of user data in Line 3
1. [prize, comp, sport]
2. [comp, prize, sport]
3. [sport, comp, prize]
4. none of the above

| Ans: 3. [sport, comp, prize] |

d) To write a record onto the writer object in Line 4
1. write
2. writerow
3. writeline
4. writelines

| Ans: 2. writerow |

```
import ________________ # Line 1
f=open('student.csv','w',newline='')
p=csv._________(f) # Line 2
ch='y'
while ch=='y':
    l=[]
```
rollno=int(input('enter rollno'))
name=input('enter name')
age=int(input('enter age'))
l.append(rollno)
l.append(name)
l.append(age)
p.__________(l) # Line 3
ch = input ('want to continue y/n?')
if ch=='y':
    continue
else:
    break
f.__________(

f=open('student.csv','r+')
c=list(csv.reader(f))
for i in c:
    k=i[2]
    if int(k)>15:
        print(i)
f.close()

(a) Name the module he should import in Line 1

1. import csv
2. csv import
3. import
4. export csv

Ans. 1. import csv
(b) which function is used in Line 2 to create a writer object
1. p=tsv.writer(f)
2. p=psv.writer(f)
3. p=csv.writer(f)
4. p=dsv.writer(f)
Ans: 3. p=csv.writer(f)

(c) The method which is to be used in line 3 to writes a row of data into the specified file
1. p.writerow(l)
2. p.writerows(l)
3. p.writer()
4. p.writerow(l)
Ans: 4. p.writerow(l)

(d) Fill in the blank in Line 4 to close the file.
1. f.close()
2. f.open()
3. close.f()
4. f.read()
Ans: 1. f.close()

Puneeta is storing the data of her gift store in a csv file named gift.csv which will store Gift_code and Gift_name of items of her gift store. She has written the following code. As a programmer help her to successfully execute her program in python:

```python
import ___________ # Line 1
def writeFile(Gift_code,Gift_name):
    F=open("gift.csv","___") # Line 2
    FW=csv.________(F) #Line 3
    FW.writerow([Gift_code,Gift_name])
```


F.close()

#CSV file for reading

def readFile():
    with ________('gift.csv','r') as newF #Line 4
        FR=csv.reader(newF)
        for row in FR:
            if row[0]==101:
                print(row)
        newF.close()

writeFile(101,"Photoframe")
writeFile(102,"Soft Toys")
writeFile(103,"Flower Pot")

readFile()  #Line 5

a) Name the module she should import in line 1.

1. .tmp
2. .bin
3. .tsc
4. .csv

Ans: 4. csv

b) In which mode Puneeta should open the file to add data in it?

1. ‘a’
2. ‘ab’
3. ‘r’
4. ‘w’

Ans: 1. ‘a’

c) Fill in the blanks in Line 3 to write data to csv file gift.csv
1. close()
2. open()
3. writer()
4. append()
   Ans: 3. writer()

   d) Fill in the blank in Line 4 to open the csv file from the disk

   1. close
   2. open
   3. write
   4. read
   Ans: 2. open

10

What is the output of the following program?

```python
import csv
d=csv.reader(open('c:\PYPRG\ch13\city.csv'))
next(d)
for row in d:
    print(row)
```

if the file called “city.csv” contain the following details

chennai,mylapore

mumbai,andheri

   1. Chennai,mylapore
   2. mumbai,andheri
   3. chennai,mumba
   4. chennai,mylapore mumbai,andheri

Ans: 2. mumbai,andheri
Sample Question Paper
Class: XII Session: 2021-22
Computer Science (Code 083)
(Theory: Term-1)

Maximum Marks: 35
Time Allowed: 90 Minutes

General Instructions:
- The question paper is divided into 3 Sections - A, B and C.
- Section B, consist of 24 Questions (26-49). Attempt any 20 questions.
- Section C, consist of 6 case study based Questions (50-55). Attempt any 5 questions.
- All questions carry equal marks.

<table>
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<tr>
<th>Q.N.</th>
<th>Section-A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section. Choose the best possible option.</td>
</tr>
<tr>
<td>1</td>
<td>Find the invalid identifier from the following</td>
</tr>
<tr>
<td></td>
<td>a. none</td>
</tr>
<tr>
<td></td>
<td>b. address</td>
</tr>
<tr>
<td></td>
<td>c. Name</td>
</tr>
<tr>
<td></td>
<td>d. pass</td>
</tr>
<tr>
<td>2</td>
<td>Consider a declaration L = (1, 'Python', '3.14'). Which of the following represents the data type of L?</td>
</tr>
<tr>
<td></td>
<td>a. list</td>
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<tr>
<td></td>
<td>b. tuple</td>
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<tr>
<td></td>
<td>c. dictionary</td>
</tr>
<tr>
<td></td>
<td>d. string</td>
</tr>
<tr>
<td>3</td>
<td>Given a Tuple tup1= (10, 20, 30, 40, 50, 60, 70, 80, 90). What will be the output of print (tup1 [3:7:2])?</td>
</tr>
<tr>
<td></td>
<td>a. (40,50,60,70,80)</td>
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<tr>
<td></td>
<td>b. (40,50,60,70)</td>
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<td></td>
<td>c. [40,60]</td>
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<td></td>
<td>d. (40,60)</td>
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<tr>
<td>4</td>
<td>Which of the following option is not correct?</td>
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<td>a. if we try to read a text file that does not exist, an error occurs.</td>
</tr>
<tr>
<td></td>
<td>b. if we try to read a text file that does not exist, the file gets created.</td>
</tr>
<tr>
<td></td>
<td>c. if we try to write on a text file that does not exist, no error occurs.</td>
</tr>
<tr>
<td></td>
<td>d. if we try to write on a text file that does not exist, the file gets Created.</td>
</tr>
<tr>
<td>5</td>
<td>Which of the following options can be used to read the first line of a text file Myfile.txt?</td>
</tr>
<tr>
<td></td>
<td>a. myfile = open(&quot;Myfile.txt&quot;); myfile.read()</td>
</tr>
<tr>
<td></td>
<td>b. myfile = open(&quot;Myfile.txt&quot;,'r'); myfile.read(n)</td>
</tr>
<tr>
<td></td>
<td>c. myfile = open(&quot;Myfile.txt&quot;); myfile.readline()</td>
</tr>
<tr>
<td></td>
<td>d. myfile = open(&quot;Myfile.txt&quot;); myfile.readlines()</td>
</tr>
</tbody>
</table>
8. Assume that the position of the file pointer is at the beginning of 3rd line in a text file. Which of the following option can be used to read all the remaining lines?  
   a. myfile.read()  
   b. myfile.read(n)  
   c. myfile.readline()  
   d. myfile.readlines()  

7. A text file `student.txt` is stored in the storage device. Identify the correct option out of the following options to open the file in read mode.  
   i. `myfile = open('student.txt','rb')`  
   ii. `myfile = open('student.txt','w')`  
   iii. `myfile = open('student.txt','w')`  
   iv. `myfile = open('student.txt')`  
   a. only i  
   b. both i and iv  
   c. both iii and iv  
   d. both i and iii  

8. The return type of the `input()` function is  
   a. string  
   b. integer  
   c. list  
   d. tuple  

9. Which of the following operator cannot be used with string data type?  
   a. +  
   b. in  
   c. *  
   d. /  

10. Consider a tuple `tup1 = (10, 15, 25, and 30)`. Identify the statement that will result in an error.  
    a. `print(tup1[2])`  
    b. `tup1[2] = 20`  
    c. `print(min(tup1))`  
    d. `print(len(tup1))`  

11. Which of the following statement is incorrect in the context of binary files?  
    a. Information is stored in the same format in which the information is held in memory.  
    b. No character translation takes place  
    c. Every line ends with a new line character  
    d. pickle module is used for reading and writing  

12. What is the significance of the `tell()` method?  
    a. tells the path of file  
    b. tells the current position of the file pointer within the file  
    c. tells the end position within the file  
    d. checks the existence of a file at the desired location
13. Which of the following statement is true?
   a. pickling creates an object from a sequence of bytes
   b. pickling is used for object serialization
   c. pickling is used for object deserialization
   d. pickling is used to manage all types of files in Python

14. Syntax of seek function in Python is `myfile.seek(offset, reference_point)` where `myfile` is the file object. What is the default value of `reference_point`?
   a. 0
   b. 1
   c. 2
   d. 3

15. Which of the following components are part of a function header in Python?
   a. Function Name
   b. Return Statement
   c. Parameter List
   d. Both a and c

16. Which of the following function header is correct?
   a. `def cal_si(p=100, r, t=2)`
   b. `def cal_si(p=100, r=8, t)`
   c. `def cal_si(p, r=8, t)`
   d. `def cal_si(p, r=8, t=2)`

17. Which of the following is the correct way to call a function?
   a. `my_func()`
   b. `def my_func()`
   c. `return my_func`
   d. `call my_func()`

18. Which of the following character acts as default delimiter in a csv file?
   a. (colon) :
   b. (hyphen) -
   c. (comma) ,
   d. (vertical line) |

19. Syntax for opening Student.csv file in write mode is `myfile = open("Student.csv","w",newline="").

   What is the importance of `newline=""?`
   a. A newline gets added to the file
   b. Empty string gets appended to the first line.
   c. Empty string gets appended to all lines.
   d. EOL translation is suppressed

20. What is the correct expansion of CSV files?
   a. Comma Separable Values
   b. Comma Separated Values
   c. Comma Split Values
   d. Comma Separation Values
<table>
<thead>
<tr>
<th></th>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Which of the following is not a function/method of csv module in Python?</td>
<td>a. read()</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. reader()</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. writer()</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d. writerow()</td>
</tr>
<tr>
<td>22</td>
<td>Which one of the following is the default extension of a Python file?</td>
<td>a. .exe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. .p++</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. .py</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d. .p</td>
</tr>
<tr>
<td>23</td>
<td>Which of the following symbol is used in Python for single line comment?</td>
<td>a. /</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. /*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. //</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d. #</td>
</tr>
<tr>
<td>24</td>
<td>Which of the following statement opens a binary file record.bin in write mode and writes data from a list lst1 = [1,2,3,4] on the binary file?</td>
<td>a. with open('record.bin','wb') as myfile: pickle.dump(lst1,myfile)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b. with open('record.bin','wb') as myfile: pickle.dump(myfile,lst1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c. with open('record.bin','wb+') as myfile: pickle.dump(myfile,lst1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d. with open('record.bin','ab') as myfile: pickle.dump(myfile,lst1)</td>
</tr>
<tr>
<td>25</td>
<td>Which of these about a dictionary is false?</td>
<td>a) The values of a dictionary can be accessed using keys</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) The keys of a dictionary can be accessed using values</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Dictionaries aren't ordered</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) Dictionaries are mutable</td>
</tr>
<tr>
<td></td>
<td>Section-B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>This section consists of 24 Questions (26 to 49). Attempt any 20 questions.</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>What is the output of following code:</td>
<td>a. Syntax error</td>
</tr>
<tr>
<td></td>
<td>$T=(100)$</td>
<td>b. (200,)</td>
</tr>
<tr>
<td></td>
<td>print($T+2$)</td>
<td>c. 200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d. (100,100)</td>
</tr>
</tbody>
</table>
27. Suppose content of 'Myfile.txt' is:

```
Twinkle twinkle little star
How I wonder what you are
Up above the world so high
Like a diamond in the sky
```

What will be the output of the following code?
```
myfile = open("Myfile.txt")
data = myfile.readlines()
print(len(data))
myfile.close()
```

a. 3  
b. 4  
c. 5  
d. 6  

28. Identify the output of the following Python statements.
```
x = [[10.0, 11.0, 12.0],[13.0, 14.0, 15.0]]
y = x[1][2]
print(y)
```

a. 12.0  
b. 13.0  
c. 14.0  
d. 15.0  

29. Identify the output of the following Python statements.
```
x = 2
while x < 9:
    print(x, end='')
    x = x + 1
```

a. 12345678  
b. 123456789  
c. 2345678  
d. 23456789  

30. Identify the output of the following Python statements.
```
b = 1
for a in range(1, 10, 2):
    b += a + 2
print(b)
```

a. 31  
b. 33  
c. 36  
d. 39
31. Identify the output of the following Python statements.

```python
lst1 = [10, 15, 20, 25, 30]
lst1.insert(3, 4)
lst1.insert(2, 3)
print(lst1[-5])
```

a. 2  

b. 3  

c. 4  

d. 20

32. 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.

```python
import pickle
tup1 = (1,2,3,4,5)
myfile = open("test.bin","wb")
pickle._______ #Statement 1
myfile.close()
```

Identify the missing code in Statement 1.

a. dump(myfile,tup1)  
b. dump(tup1, myfile)  
c. write(tup1,myfile)  
d. load(myfile,tup1)

33. A binary file `employee.dat` has the following data.

<table>
<thead>
<tr>
<th>Empno</th>
<th>empname</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Anuj</td>
<td>50000</td>
</tr>
<tr>
<td>102</td>
<td>Arijita</td>
<td>40000</td>
</tr>
<tr>
<td>103</td>
<td>Hanika</td>
<td>30000</td>
</tr>
<tr>
<td>104</td>
<td>Firoz</td>
<td>60000</td>
</tr>
<tr>
<td>105</td>
<td>Vijaylakshmi</td>
<td>40000</td>
</tr>
</tbody>
</table>

```python
def display(eno):
    f=open("employee.dat","rb")
totSum=0
    try:
        while True:
            R=pickle.load(f)
            if R[0]==eno:
                totSum=totSum+R[2]
                #Line1
    except:
        f.close()
    print(totSum)
```

When the above mentioned function, display (103) is executed, the output displayed is 190000.

Write appropriate jump statement from the following to obtain the above output.

```python
#Line1
```
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Questions</strong></td>
<td><strong>Python Code</strong></td>
</tr>
<tr>
<td><strong>34</strong></td>
<td>What will be the output of the following Python code?</td>
</tr>
</tbody>
</table>
|   | def add (num1, num2):
|   |    sum = num1 + num2
|   |    sum = add(20,30)
|   |    print(sum) |
| a. 50 | b. 0 |
| c. Null | d. None |
| **35** | Evaluate the following expression and identify the correct answer. |
|   | 16 - (4 + 2) * 5 + 2**3 * 4 |
| a. 54 | b. 46 |
| c. 18 | d. 32 |
| **36** | What will be the output of the following code? |
|   | def my_func(var1=100, var2=200):
|   |    var1+=10
|   |    var2 = var2 - 10
|   |    return var1+var2
|   |    print(my_func(50),my_func()) |
| a. 100 200 | b. 150 300 |
| c. 250 75 | d. 250 300 |
| **37** | What will be the output of the following code? |
|   | value = 50
|   | def display(N):
|   |    global value
|   |    value = 25
|   |    if N%7==0:
|   |       value = value + N
|   |    else:
|   |       value = value - N
|   |    print(value, end="#")
|   |    display(20)
|   |    print(value) |
| a. 50#50 | b. 50#5 |
| c. 50#30 | d. 5#50# |
38. What will be the output of the following code?

```python
import random
List=["Delhi","Mumbai","Chennai","Kolkata"]
for y in range(4):
    x = random.randint(1,3)
    print(List[x],end=">")
```

a. Delhi#Mumbai#Chennai#Kolkata#
b. Mumbai#Chennai#Kolkata#Mumbai#
c. Mumbai#Mumbai#Mumbai#Delhi#
d. Mumbai#Mumbai#Chennai#Mumbai#

39. What is the output of the following code snippet?

```python
def ChangeVal(M,N):
    for i in range(N):
        if M[i]%5 == 0:
            M[i]//=5
        if M[i]%3 == 0:
            M[i]//=3
    L = [25,8,75,12]
    ChangeVal(L,4)
    for i in L:
        print(i,end="#")
```

a) 5#8#15#4#
b) 5#8#5#4#
c) 5#8#15#14#
d) 5#18#15#4#

40. Suppose content of 'Myfile.txt' is

```
Humpty Dumpty sat on a wall
Humpty Dumpty had a great fall
All the king's horses and all the king's men
Couldn't put Humpty together again
```

What will be the output of the following code?

```python
myfile = open("Myfile.txt")
record = myfile.read().split()
print(len(record))
myfile.close()
```

a. 24
b. 25
c. 26
d. 27

41. Find the output of the following code:

```python
Name="Python3.1"
R=""
for x in range(len(Name)):
    if Name[x].isupper():
        R=R+Name[x].lower()
```
```
eif Name[x].islower():
    R=R+Name[x].upper()
eif Name[x].isdigit():
    R=R+Name[x-1]
else:
    R=R+"#"
print(R)
```

42. Suppose content of 'Myfile.txt' is
   Honesty is the best policy.
   What will be the output of the following code?
   ```python
   myfile = open("Myfile.txt")
   x = myfile.read()
   print(len(x))
   myfile.close()
   ```
   a. 5
   b. 25
   c. 26
   d. 27

43. Suppose content of 'Myfile.txt' is
   Culture is the widening of the mind and of the spirit.
   What will be the output of the following code?
   ```python
   myfile = open("Myfile.txt")
   x = myfile.read()
   y = x.count('the')
   print(y)
   myfile.close()
   ```
   a. 2
   b. 3
   c. 4
   d. 5

44. What will be the output of the following code?
   ```python
   x = 3
   def myfunc():
       global x
       x+=2
       print(x, end= ' ')
   print(x, end= ' ')
   myfunc()
   print(x, end= ' ')
   ```
45 Suppose content of 'Myfile.txt' is

Ek Bharat Shreshtha Bharat

What will be the output of the following code?

```python
myfile = open("Myfile.txt")
plist = list("aeiouAEIOU")
vc=0
x = myfile.read()
for y in x:
    if(y in plist):
        vc+=1
print(vc)
myfile.close()
```

a. 6  
b. 7  
c. 8  
d. 9

46 Suppose content of 'Myfile.txt' is

Twinkle twinkle little star  
How I wonder what you are  
Up above the world so high  
Like a diamond in the sky  
Twinkle twinkle little star

What will be the output of the following code?

```python
myfile = open("Myfile.txt")
line_count = 0
data = myfile.readlines()
for line in data:
    if line[0] == 'T':
        line_count += 1
print(line_count)
myfile.close()
```

a. 2  
b. 3  
c. 4  
d. 5
47. Consider the following directory structure.

```
<table>
<thead>
<tr>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academics</td>
</tr>
<tr>
<td>Syllabus.jpg</td>
</tr>
</tbody>
</table>
```

Suppose root directory (School) and present working directory are the same. What will be the absolute path of the file Syllabus.jpg?

a. School/syllabus.jpg  
b. School/Academics/syllabus.jpg  
c. School/Academics/./syllabus.jpg  
d. School/Examination/syllabus.jpg

48. Assume the content of text file, ‘student.txt’ is:

```
Arjun Kumar  
Ismail Khan  
Joseph B  
Hanika Kiran
```

What will be the data type of data_rec?

```python
myfile = open("Myfile.txt")
data_rec = myfile.readlines()
myfile.close()
```

a. string  
b. list  
c. tuple  
d. dictionary

49. What will be the output of the following code?

```python
tup1 = (1,2,[1,2],3)
tup1[2][1]=3.14
print(tup1)
```

a. (1,2,[3.14,2],3)  
b. (1,2,[1,3.14],3)  
c. (1,2,[1,2],3.14)  
d. Error Message
| **Section-C** |
| **Case Study based Questions** |
| **This section consists of 6 Questions (50-55) Attempt any 6 questions.** |

Rohit, a student of class 12, is learning CSV File Module in Python. During examination, he has been assigned an incomplete python code (shown below) to create a CSV File 'Student.csv' (content shown below). Help him in completing the code which creates the desired CSV File.

**CSV File**

1. AKSHAY, XII, A  
2. ABHISHEK, XII, A  
3. ARVIND, XII, A  
4. RAVI, XII, A  
5. ASHISH, XII, A

**Incomplete Code**

```python
import _  #Statement-1
fh = open(____, ____ , newline="")  #Statement-2
stwriter = csv._  #Statement-3
data = []
header = ['ROLL_NO', 'NAME', 'CLASS', 'SECTION']
data.append(header)
for i in range(5):
    roll_no = int(input("Enter Roll Number : "))
    name = input("Enter Name : ")
    Class = input("Enter Class : ")
    section = input("Enter Section : ")
    rec = [______]  #Statement-4
    data.append(______)  #Statement-5
    stwriter._____ (data)  #Statement-6
fh.close()
```

50 Identify the suitable code for blank space in the line marked as Statement-1.
   a) csv file  
   b) CSV  
   c) csv  
   d) csvs

51 Identify the missing code for blank space in line marked as Statement-2.
   a) "Student.csv","wb"  
   b) "Student.csv","w"  
   c) "Student.csv","r"  
   d) "Student.csv","r"

52 Choose the function name (with argument) that should be used in the blank space of line marked as Statement-3.
   a) reader(fh)  
   b) reader(MyFile)  
   c) writer(fh)  
   d) writer(MyFile)
<table>
<thead>
<tr>
<th>Question</th>
<th>Description</th>
</tr>
</thead>
</table>
| 53       | Identify the suitable code for blank space in line marked as Statement-4.  
  a) 'ROLL_NO', 'NAME', 'CLASS', 'SECTION'  
  b) ROLL_NO, NAME, CLASS, SECTION  
  c) 'roll_no', 'name', 'Class', 'section'  
  d) roll_no,name,Class,section |
| 54       | Identify the suitable code for blank space in the line marked as Statement-5.  
  a) data  
  b) record  
  c) rec  
  d) insert |
| 55       | Choose the function name that should be used in the blank space of line marked as Statement-6 to create the desired CSV File?  
  a) dump()  
  b) load()  
  c) writerows()  
  d) writerow() |