

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 A, consist of 25 Questions (1-25). Attempt any 20 questions.
- 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.

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

6	<p>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?</p> <ol style="list-style-type: none"> myfile.read() myfile.read(n) myfile.readline() myfile.readlines()
7	<p>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.</p> <ol style="list-style-type: none"> myfile = open('student.txt','rb') myfile = open('student.txt','w') myfile = open('student.txt','r') myfile = open('student.txt') <ol style="list-style-type: none"> only i both i and iv both iii and iv both i and iii
8	<p>The return type of the input() function is</p> <ol style="list-style-type: none"> string integer list tuple
9	<p>Which of the following operator cannot be used with string data type?</p> <ol style="list-style-type: none"> + in * /
10	<p>Consider a tuple tup1 = (10, 15, 25, and 30). Identify the statement that will result in an error.</p> <ol style="list-style-type: none"> print(tup1[2]) tup1[2] = 20 print(min(tup1)) print(len(tup1))
11	<p>Which of the following statement is incorrect in the context of binary files?</p> <ol style="list-style-type: none"> Information is stored in the same format in which the information is held in memory. No character translation takes place Every line ends with a new line character pickle module is used for reading and writing
12	<p>What is the significance of the tell() method?</p> <ol style="list-style-type: none"> tells the path of file tells the current position of the file pointer within the file tells the end position within the file checks the existence of a file at the desired location

13	<p>Which of the following statement is true?</p> <ul style="list-style-type: none"> 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	<p>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>?</p> <ul style="list-style-type: none"> a. 0 b. 1 c. 2 d. 3
15	<p>Which of the following components are part of a function header in Python?</p> <ul style="list-style-type: none"> a. Function Name b. Return Statement c. Parameter List d. Both a and c
16	<p>Which of the following function header is correct?</p> <ul style="list-style-type: none"> a. <code>def cal_si(p=100, r, t=2)</code> b. <code>def cal_si(p=100, r=8, t)</code> c. <code>def cal_si(p, r=8, t)</code> d. <code>def cal_si(p, r=8, t=2)</code>
17	<p>Which of the following is the correct way to call a function?</p> <ul style="list-style-type: none"> a. <code>my_func()</code> b. <code>def my_func()</code> c. <code>return my_func</code> d. <code>call my_func()</code>
18	<p>Which of the following character acts as default delimiter in a csv file?</p> <ul style="list-style-type: none"> a. (colon) : b. (hyphen) - c. (comma) , d. (vertical line)
19	<p>Syntax for opening Student.csv file in write mode is <code>myfile = open("Student.csv","w",newline=")</code>.</p> <p>What is the importance of <code>newline=""</code>?</p> <ul style="list-style-type: none"> 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	<p>What is the correct expansion of CSV files?</p> <ul style="list-style-type: none"> a. Comma Separable Values b. Comma Separated Values c. Comma Split Values d. Comma Separation Values

21	Which of the following is not a function / method of csv module in Python? a. read() b. reader() c. writer() d. writerow()
22	Which one of the following is the default extension of a Python file? a. .exe b. .p++ c. .py d. .p
23	Which of the following symbol is used in Python for single line comment? a. / b. /* c. // d. #
24	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? a. with open('record.bin','wb') as myfile: pickle.dump(lst1,myfile) b. with open('record.bin','wb') as myfile: pickle.dump(myfile,lst1) c. with open('record.bin','wb+') as myfile: pickle.dump(myfile,lst1) d. with open('record.bin','ab') as myfile: pickle.dump(myfile,lst1)
25	Which of these about a dictionary is false? a) The values of a dictionary can be accessed using keys b) The keys of a dictionary can be accessed using values c) Dictionaries aren't ordered d) Dictionaries are mutable
	Section-B
	This section consists of 24 Questions (26 to 49). Attempt any 20 questions.
26	What is the output of following code: <pre>T=(100) print(T*2)</pre> a. Syntax error b. (200,) c. 200 d. (100,100)

27	<p>Suppose content of 'Myfile.txt' is:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"><p>Twinkle twinkle little star How I wonder what you are Up above the world so high Like a diamond in the sky</p></div> <p>What will be the output of the following code?</p> <pre>myfile = open("Myfile.txt") data = myfile.readlines() print(len(data)) myfile.close()</pre> <p>a. 3 b. 4 c. 5 d. 6</p>
28	<p>Identify the output of the following Python statements.</p> <pre>x = [[10.0, 11.0, 12.0],[13.0, 14.0, 15.0]] y = x[1][2] print(y)</pre> <p>a. 12.0 b. 13.0 c. 14.0 d. 15.0</p>
29	<p>Identify the output of the following Python statements.</p> <pre>x = 2 while x < 9: print(x, end='') x = x + 1</pre> <p>a. 12345678 b. 123456789 c. 2345678 d. 23456789</p>
30	<p>Identify the output of the following Python statements.</p> <pre>b = 1 for a in range(1, 10, 2): b += a + 2 print(b)</pre> <p>a. 31 b. 33 c. 36 d. 39</p>

31	<p>Identify the output of the following Python statements.</p> <pre>lst1 = [10, 15, 20, 25, 30] lst1.insert(3, 4) lst1.insert(2, 3) print (lst1[-5])</pre> <p>a. 2 b. 3 c. 4 d. 20</p>																		
32	<p>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.</p> <pre>import pickle tup1 = (1,2,3,4,5) myfile = open("test.bin",'wb') pickle._____ #Statement 1 myfile.close()</pre> <p>Identify the missing code in Statement 1.</p> <p>a. dump(myfile,tup1) b. dump(tup1, myfile) c. write(tup1,myfile) d. load(myfile,tup1)</p>																		
33	<p>A binary file employee.dat has following data</p> <table border="1" data-bbox="626 1020 1101 1281"> <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> <pre>def display(eno): f=open("employee.dat","rb") totSum=0 try: while True: R=pickle.load(f) if R[0]==eno: _____ #Line1 totSum=totSum+R[2] except: f.close() print(totSum)</pre> <p>When the above mentioned function, display (103) is executed, the output displayed is 190000.</p> <p>Write appropriate jump statement from the following to obtain the above output.</p>	Empno	empname	Salary	101	Anuj	50000	102	Arijita	40000	103	Hanika	30000	104	Firoz	60000	105	Vijaylakshmi	40000
Empno	empname	Salary																	
101	Anuj	50000																	
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103	Hanika	30000																	
104	Firoz	60000																	
105	Vijaylakshmi	40000																	

	<ul style="list-style-type: none">a. jumpb. breakc. continued. return
34	<p>What will be the output of the following Python code?</p> <pre>def add (num1, num2): sum = num1 + num2 sum = add(20,30) print(sum)</pre> <ul style="list-style-type: none">a. 50b. 0c. Nulld. None
35	<p>Evaluate the following expression and identify the correct answer.</p> $16 - (4 + 2) * 5 + 2**3 * 4$ <ul style="list-style-type: none">a. 54b. 46c. 18d. 32
36	<p>What will be the output of the following code?</p> <pre>def my_func(var1=100, var2=200): var1+=10 var2 = var2 - 10 return var1+var2 print(my_func(50),my_func())</pre> <ul style="list-style-type: none">a. 100 200b. 150 300c. 250 75d. 250 300
37	<p>What will be the output of the following code?</p> <pre>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)</pre> <ul style="list-style-type: none">a. 50#50b. 50#5c. 50#30d. 5#50#

38	<p>What will be the output of the following code?</p> <pre>import random List=["Delhi", "Mumbai", "Chennai", "Kolkata"] for y in range(4): x = random.randint(1, 3) print(List[x], end="#")</pre> <p>a. Delhi#Mumbai#Chennai#Kolkata# b. Mumbai#Chennai#Kolkata#Mumbai# c. Mumbai# Mumbai #Mumbai # Delhi# d. Mumbai# Mumbai #Chennai # Mumbai</p>
39	<p>What is the output of the following code snippet?</p> <pre>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="#")</pre> <p>a) 5#8#15#4# b) 5#8#5#4# c) 5#8#15#14# d) 5#18#15#4#</p>
40	<p>Suppose content of 'Myfile.txt' is</p> <div data-bbox="542 1205 1183 1373" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"><p>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</p></div> <p>What will be the output of the following code?</p> <pre>myfile = open("Myfile.txt") record = myfile.read().split() print(len(record)) myfile.close()</pre> <p>a. 24 b. 25 c. 26 d. 27</p>
41	<p>Find the output of the following code:</p> <pre>Name="Python3.1" R="" for x in range(len(Name)): if Name[x].isupper(): R=R+Name[x].lower()</pre>

	<pre> elif Name[x].islower(): R=R+Name[x].upper() elif Name[x].isdigit(): R=R+Name[x-1] else: R=R+"#" print(R) </pre> <p>a. pYTHOn##@ b. pYTHOnN#@ c. pYTHOn#@ d. pYTHOnN@#</p>
42	<p>Suppose content of 'Myfile.txt' is</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Honesty is the best policy.</div> <p>What will be the output of the following code?</p> <pre> myfile = open("Myfile.txt") x = myfile.read() print(len(x)) myfile.close() </pre> <p>a. 5 b. 25 c. 26 d. 27</p>
43	<p>Suppose content of 'Myfile.txt' is</p> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Culture is the widening of the mind and of the spirit.</div> <p>What will be the output of the following code?</p> <pre> myfile = open("Myfile.txt") x = myfile.read() y = x.count('the') print(y) myfile.close() </pre> <p>a. 2 b. 3 c. 4 d. 5</p>
44	<p>What will be the output of the following code?</p> <pre> x = 3 def myfunc(): global x x+=2 print(x, end=' ') print(x, end=' ') myfunc() print(x, end=' ') </pre>

	<p>a. 3 3 3 b. 3 4 5 c. 3 3 5 d. 3 5 5</p>
45	<p>Suppose content of 'Myfile.txt' is</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">Ek Bharat Shreshtha Bharat</div> <p>What will be the output of the following code?</p> <pre>myfile = open("Myfile.txt") vlist = list("aeiouAEIOU") vc=0 x = myfile.read() for y in x: if(y in vlist): vc+=1 print(vc) myfile.close()</pre> <p>a. 6 b. 7 c. 8 d. 9</p>
46	<p>Suppose content of 'Myfile.txt' is</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">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</div> <p>What will be the output of the following code?</p> <pre>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()</pre> <p>a. 2 b. 3 c. 4 d. 5</p>

<p>47</p>	<p>Consider the following directory structure.</p> <div style="text-align: center;"> <pre> graph TD School[School] --> Academics[Academics] School --> Examination[Examination] School --> Sports[Sports] Academics --> Syllabus[Syllabus.jpg] Examination --> Result[Result.png] Sports --> Achievement[Achievement.jpg] </pre> </div> <p>Suppose root directory (School) and present working directory are the same. What will be the absolute path of the file Syllabus.jpg?</p> <ol style="list-style-type: none"> School/syllabus.jpg School/Academics/syllabus.jpg School/Academics/./syllabus.jpg School/Examination/syllabus.jpg
<p>48</p>	<p>Assume the content of text file, 'student.txt' is:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Arjun Kumar Ismail Khan Joseph B Hanika Kiran</p> </div> <p>What will be the data type of data_rec?</p> <pre> myfile = open("Myfile.txt") data_rec = myfile.readlines() myfile.close() </pre> <ol style="list-style-type: none"> string list tuple dictionary
<p>49</p>	<p>What will be the output of the following code?</p> <pre> tup1 = (1,2,[1,2],3) tup1[2][1]=3.14 print(tup1) </pre> <ol style="list-style-type: none"> (1,2,[3.14,2],3) (1,2,[1,3.14],3) (1,2,[1,2],3.14) Error Message

Section-C Case Study based Questions	
This section consists of 6 Questions (50 -55) Attempt any 5 questions.	
	<p>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.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>CSV File 1,AKSHAY,XII,A 2,ABHISHEK,XII,A 3,ARVIND,XII,A 4,RAVI,XII,A 5,ASHISH,XII,A</p> </div> <p>Incomplete Code</p> <pre> import _____ #Statement-1 fh = open(_____, _____, newline=") #Statement-2 stuwriter = 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 stuwriter. _____ (data) #Statement-6 fh.close() </pre>
50	<p>Identify the suitable code for blank space in the line marked as Statement-1.</p> <p>a) csv file b) CSV c) csv d) cvs</p>
51	<p>Identify the missing code for blank space in line marked as Statement-2.</p> <p>a) "Student.csv","wb" b) "Student.csv","w" c) "Student.csv","r" d) "Student.cvs","r"</p>
52	<p>Choose the function name (with argument) that should be used in the blank space of line marked as Statement-3.</p> <p>a) reader(fh) b) reader(MyFile) c) writer(fh) d) writer(MyFile)</p>

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()