





Term-I Examination Computer Science(Code083)

Class: XII	Date:

Time:3 hrsMarks:70

General Instructions:

- 1. This question paper contains two parts A and B. Each part is Compulsory.
- 2.Both Part A and Part B have choices.
- 3.Part-A has 2 sections:
 - a.Section-I is short answer questions, to be answered in one word or one line.
- b.Section-II has two case studies questions. Each case study has 4 case-based subparts. An examinee is to attempt any 4 out of the 5 subparts.
- 4.Part-B is Descriptive paper
- 5.Part-B has three sections
- a.Section-I is short answer question of 2 marks each in which two question have internal options.
- b.Section-II is long answer questions of 3 marks each in which two questions have internal options.
- c.Section-III is very long answer questions of 5 marks each in which one question has internal option.
- 6.All programming questions are to be answered using python Language only.

Part-A

Section-I

This section consists of 21 Questions (1 to 21). Attempt any 15 questions from this section. Choose the best possible option.

1.Which keyword is used to begin the definition of a function ?				•
a.Define	b.DEF	c.def	d.Def	
2. A	in itself is a bunch o	of bytes stores on s	some storage device like	hard-disk

,thumbdrive etc.				1			
a.file	b.data	c.information	d.None of these				
3. How can we crea	te an empty list in py	thon?		1			
a. list=()	b. null	c. list	d. list=[]				
4.There are mainly	types of data	a files.		1			
a.2	b.3	c.4	d.None of these				
5.What will be the o	output of the following	g Python code?		1			
from math import	factorial						
print (math.factori	al (5))						
a.120							
b.Nothing is printe	ed						
c.Error, method fa	ctorial doesn't exist i	n math module					
d.Error, the statem	ent should be: print(f	factorial(5))					
6.In a stack, if a use	er tries to remove an	element from an empt	y stack, the situation is cal	led? 1			
a. Underflow	b. Empty collection	c.Overflow	d. Garbage collection	า			
7. Which of the stat module?	7. Which of the statements is used to import all names from a module into the current calling module?						
a.import	b.from	c. import *	d.dir()				
8.Computer store e	very file as a collection	on ofan	d	1			
a.data,information	b.0's ,1's	c.text,number	rs d.None of these				
9.ln a program,a fu	nction can be called __	times.		1			
a.2	b.3	c.5	d.Multiple times				
10.A	files stored the inforr	mation in the form of a	a stream(sequence) of byte	s.1			
a.text files	b.binary files	c.Both(a) and (b)	d.None of these				
11. The collection of modules and packages that together cater to a specific type of							
applications or req	uirements, is called _	.		1			

a. module	b. library	1	c.classe	s		d.documentation	
12.An independe	nt triple quo	oted string	given in:	side a modu	ıle, cor	ntaining documentation	
related information	on is a						1
a. Documentation	n string	b.docstrin	g	c.dstring		d.stringdoc	
13.ln file,there is no delimiter in a line i.e.EOL.					1		
a.text files	b.binary fil	les	c.Both	(a) and (b)		d.None of these	
14.defcal(n1):wha	at is n1?						1
a.parameter	b.Argumer	nt	c.Keyw	ord		d.None of the above	
15.ln a stack, all	insertions t	take place a	at	end(s).			1
a top	b. front		c. rear			d. any	
16.Choose corre	ect output fo	or the follow	ving seq	uence of op	eration	ns (★ signifies top).	1
push(5), push(8)), pop, push	n(2), push(5), pop, p	ush(1)			
a. 85251b. 8552′	1c.2551d.52	1					
17.Write the out	put of the fo	ollowing:					1
defcal(m,n):							
if m==n:							
return m*3							
else:							
return n*2							
s=cal("Amit","	Anuj")						
print(s)							
a.AmitAmitAmit	b.Amit	Amit	c.Anu	ıjAnujAnuj		d.AnujAnuj	
18.Inpython,Wh	ich function	is use to o	pen the	file?			1
a.open_file()	b.file	e_open()	С	.open()		d.None of these	
19. Which of the following random module functions generates a floating point number?				1			

a. randrange()	b. randint()	c. uniform()	d.all of these	
20.Which of the following is an application of stack?				
a. Finding factorial	b.Reversing of a string	c.Infix to postfix	d.All of the above	
21.Which of the follow	ving statement will execu	te in last?		1
def s(n1):#statement1				
print(n1) #statement2				
n2=4 #statement 3				
s(n2) #statement 4				
a.Statement 1	b.Statement 2	c.Statement 3	d.Statement4	
	Secti	on-II		
Both the Case study I question.Each question	pased questions are com on carries 1 mark.	pulsory.Attempt any 4	sub parts from each	1
	IT Company writing a pre has written the followinen below.	_		I
	atement 1			1
fn=open(,	,newline='') # Statemer	nt 2		1
sdata=CSV				1
temp=[]				
sid=int(input("Enter S	Student id:"))			
sname=input("Enter \$	Student name:")			
class=input("Enter Cl	ass:")			
record=[]	# Statement 4			1
sdata.dump() # Statement 6			1
fn.close()				
23. Fill in the blanks v	vith an appropriate word:			

Import pickle				
write():				
f=open("student.dat","")				
while True:				
r=int(input("Enter the Roll no:"))				
n=input("Enter the name:")				
data=(,n)	1			
pickle(data,f)	1			
ch=input("More?(Y/N)")				
if in 'Nn':	1			
break				
Part-B				
Section-I				
24. What is the utility of python standard library math module and random module?	2			
25.How to create a function in python? Explain in detail?				
OR				
What is default parameter?Give an example program for it?				
26.What is the difference between "w" and "a" modes?				
27.What are docstrings?How are they useful?				
OR				
What is a library in python?				
28. What are the comments? What are the role comments in the program? How to write single-line comments and multi-line comments?				
29.Write an algorithm to implement push operation?				
30.What are the advantages of CSV file format?	2			

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31. What are the different file-processing modes supported by python?
                                                                                        2
32. Evaluate the following postfix notation to expression. Show status of stack after every
operation. (12,2,7,34,20,-,+,5,+)
                                                                                        2
33. What are the arguments supported by python? Explain each of them with a suitable
                                                                                        2
example?
                                        Section-II
                                                                                         3
34. What will be the output of following code?
def interest(prnc,time=2,rate=0.10):
return(prnc*time*rate)
print(interest(5600,1))
print(interest(4000,rate=0.05))
print(interest(4000,3,0.12))
print(interest(time=4,prnc=4000))
                                       OR
What possible outputs are expected to be displayed on screen at the time of execution of
the program from the following code? Also specify the maximum values that can be
assigned to each of the variables Lower and Upper.
import random
AR=[20,30,40,50,60,70]
Lower=random.randint(1,4)
Upper=random.randint(2,5)
for K in range(Lower, Upper+1):
print(AR[K],end="#")
35. Find and write the output of the following python code:
                                                                                        3
def Call(P=40,Q=20):
  P=P+Q
  Q=P-Q
```

```
print(P,'@',Q)
return P
R=200
S=100
R=Call(R,S)
print(R,'@',S)
S=Call(S)
print(R,'@',S)
                                                                                         3
36. What is the output produced by following code?
obj=open("New.txt","w")
obj.write("A poem by paramhansaYogananada")
obj.write("Better than Heaven or Arcadia")
obj.write("I love thee,O my India!")
obj.write("And thy love I shall give")
obj.write("To every brother nation that lives.")
obj.close()
obj1=open("New.txt","r")
s1=obj1.read(48)
print(s1)
obj1.close()
37. What is meant by Polish strings? Explain in detail?
                                                                                         3
                               OR
Identify the error in the following code.
Import pickle
data=['one',2,[3,4,5]]
```

with open('data2.dat','rb') as f:				
pickle.dump(data,f)				
Section-III	5			
38.Write a function countmy() in Python to read the text file "Story.txt" and count the number of times "my" or "My" occurs in the file. For example if the file "Story.TXT" contains:				
The countmy() function should display the output as: "my occurs 2 times".				
39.Write a program that generates 4 terms of an AP by providing initial and step values to function that returns first four terms of the series.				
40.Write a program that inputs a main string and then creates an encrypted string by embedding a short symbol based string after each character. The program should also to produce the decrypted string from encrypted string.	5			
OR				
Write a algorithm to convert infix to postfix Conversion using Stack.				
ALL THE BEST				