Subject: Computer Science(083) Annual Examination Class: XI Session: 2022-23 Computer Science (083)

MaximumMarks:70

Time Allowed: 3 Hrs

General Instructions:

- 1. This question paper contains fives sections, Section A to E.
- 2. All questions are compulsory.
- 3. Section A have18 questions carrying 01 mark each.
- 4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
- 5. Section C has 05 Short Answer type questions carrying 03 marks each.
- 6. Section D has 03 Long Answer type questions carrying 05 marks each.
- Section E has 02 questions carrying 04 marks each. One internal choice is given in Q35 against part C only.
- 8. All programming questions are to be answered using Python Language only.

	A MS-Office is a-	
		1
	(a) Operating Software (b) Utility program	
	(c) Programming language (d) Application Software	
2.	What is the ASCII equivalent decimal no. for 'Y' ?	1
	a) 87 (b)88 (c) 89 (d)90	
3.	Hexa-Decimal of (346) ₁₀ = (?) ₁₆ (Show calculation)	1
	(a) 14B (b) 1A5 (c)15A (d) 5A1	
	Find the invalid identifier(s) from the following:	1
	a) MyName b) 2ndName c) true d) My_Name	
	c) true d) My_Name	1
5.	Suppose tuple T is $T = (10, 12, 43, 39)$, Find	1
	incorrect? a) print(T[1]) b) $T[2] = -29$	
	c) print(max(T)) d) print(len(T))	
6.	What will be the result of the following code?	1
	$>>>d1 = \{$ "abc" : 5, "def" : 6, "ghi" : 7 $\}$	
	>>>print (d1[abc])	
	(a) abc (b) 5 (c) {"abc":5} (d) Error	
	Suppose list L is declared as	1
	L = [5 * i for i in range (0,4)], list L is	
	a) [0, 1, 2, 3,] b) [0, 1, 2, 3, 4] c) [0, 5, 10, 15] b) [0, 5, 10, 15, 20]	
8.	c) $[0, 5, 10, 15]$ d) $[0, 5, 10, 15, 20]$ Identify declaration of $M = 'Mon', '23', 'Bye', '6.5'$	1
	a) dictionary b) string c) tuple d) list	
	STR="RGBCOLOR"	1
	colors=list(STR)	

	How do we delete 'B' in given List colors?	
	 (a) del colors[2] (b) colors.remove("B") (c) colors.pop(2) (d) All of these 	
10.	What is the value of x when this loop has been terminated:	1
	x=45	
	while x>0:	

	print(x)	
	x=x-10	
	(a) 25 (b) 45 (c) 5 (d) -5	
11.	What will be the output of the following Python Code?	1
	tp=(5,)	
	tp1=tp * 2	
	print(len(tp1))	
	(a) 0 (b) 2	
12.	(c) 1 (d) error	1
12,	day_name= ['Mon', 'Tues', 'Wednes', 'Thursday', 'Friday', 'Saturday', 'Sunday']	
	print(day_name[7])	
	What will be the result?	
	(a) Sunday (b)Saturday	
	(c)Error (d) Mon	
13.	It is aLogical Gate	1
	$ A \rightarrow B \rightarrow out$	
	(a) XOR (b) NAND	
	(c) AND (d) OR	
14.	Which is equivalent of (A+B)'	1
	(a) A'.B'	
	(b) A'+B'	
	(c) A.B'	
	(d) A'.B	
15.	Which is not a threat?	1
	(a) Worm (b) Trojan	
	(c)Virus (d) E-Mail	
	(c) virus (u) L-Ivian	
16.	What type damages can be caused by viruses to your computer?	1
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16.	What type damages can be caused by viruses to your computer? (a) Damage or Delete files	1
16.	 What type damages can be caused by viruses to your computer? (a) Damage or Delete files (b) Slow down your computer (c) Invade all Programmes in your Computer 	1
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A: Viruses are the malicious program.
R: Worm means Write Once Read
Many.

(a) Both A and R are true and R is the correct explanation for A
(b) Both A and R are true and R is not the correct explanation for A
(c) A is True but R is False
(d) A is false but R is True

18.	Choose correct option:	1
	Statement 1: t1=tuple('python')	
	Statement 2: $t1[4]='z'$	
	A: Above code will generate error Statement2:	
	R: Tuple is immutable by nature.	
	(a) Both A and R are true and R is the correct explanation for A(b) Both A and R are true and R is not the correct explanation for A(c) A is True but R is False	
	(d) A is false but R is True	
19.	SECTION B	2
19.	What will be the output of the following Python code? x, y=4, 2	
	while($x \ge y$):	
	print(x, y)	
	x=x-1	
	y=y+1	
	a) 4, 2 b) Invalid syntax c) 2, 4 d) Nothing is printed	
20.	3, 3 3, 3 What is the result of this statement:	2
20.	10>5 and $7>12$ or not $18>3$	2
	a) 10 b) True c) False d) None	
	OR	
	What will be the output of the following Python code?	
	>>> 6 * 3 + 4 ** 2 // 5 - 8	
21.	a) 13 b) 14 c) Error d) None	2
21.	Convert the following program into for loop without affecting the output.	
	count=0	
	while count<10:	
	print("Hello")	
	print("Good Bye!")	
22.	count=count+1 What do you understand by PC intrusion?	2
		$\frac{2}{2}$
23. 24.	What is a spam? Why has it become a big Internet issue? How many times will the following for loops execute and what's the output of this program?	2
	for i in range(-1,-7,-2):	
	for j in range(3):	
	print(1, j)	
	OR	

What's the output of the following program.	
fruits = $\{ \text{'Apple': } 100, \}$	
'Orange': 200,	
'Banana': 400,	
'pomegranate':600	
}	
if 'Apple' in fruits:	
del fruits['Apple']	
print('Dictionary after deleting key =',fruits)	
^{25.} Write a program to print the Fibonacci Series till n terms, where n is entered	ed 2
by the user.	

	SECTION C	
26.	Answer the following: i) Convert: (11111110101110.1101101111) ₂ = (?) ₁₆ ii) Differentiate between Compiler and Interpreter.	3 (1+2)
27.	Rewrite the following code in Python after removing all syntax error(s).	3
	30 = To	
	for K in range(0,	
	To) If K%4 ==	
	0:	
	Print(K*4)	
	Else:	
	Print(K + 3)	
28.	Write a program to check whether the entered number is Armstrong or not.	3
29.	What possible output(s) are expected to be displayed on screen at the time of execution of the program from following code?	3 (1 + 2)
	from random import randint	
	LST=[5,10,15,20,25,30,35,40,45,50,60,70]	
	first = random.randint $(3,8)$ -1	
	second = random.randint $(4,9)$ -2	
	third = random.randint $(6,11)$ -3	
	print(LST[first],"#", LST[second],"#", LST[third],"#")	
	a) 20#25#25# b) 30#40#70#	
	c) 15#60#70# d) 35#40#60#	
	Specify the maximum values that can be assigned to each of the variables	
	second and third in the code given.	
30.	Umesh wanted to gift his brother a football or a wrist watch. So he searched	3 (1+1+1
	for many sports items and wrist watches online. But after that every time he)
	goes online, his web browser shows him advertisements about sports items and	
	wrist watches.	
	 (a) Why is this happening? (b) How could have Umesh avoided them? (c) How can Umesh get rid of this now? SECTION D	
31.	Write a program to search for an element in a given list of numbers.	4
32.	Expand the following: -	4
	i) Write the full forms of following: IPR, GPL, Proprietary Software, URL	(2+2)
	ii) Identify the Open Source software(s) from the following: -	
	MySql, Quick Heal Antivirus, Python, Microsoft Office	
22	SECTION E Explain the following :	5
33.	(i) What is syntax error? Give one example.	3 (1+2

(ii)	What is the difference between '=' and '=='? Explain with the help of an example.	+2)
(iii)	What do you understand by precedence of operators? What is the precedence of arithmetic operators?	

34.	Write the solution for the following problem:	5
	(a) Write the output of this program :	(2+3)
	s1='Hello World!'	
	index=0	
	while index< (len(s1)-3):	
	<pre>print(s1[index], end=' ')</pre>	
	index = index + 1	
	OR	
	Write the output of this program. Justify your answer also.	
	my_dict={ }	
	$my_dict[1]=1$	
	$my_dict['1']=2$	
	my_dict[1.0]=4	
	print(my_dict)	
	(b) Write a Python program to create a dictionary to store names of states and their capitals.	
	OR	
	Write a Python program to create a third dictionary from two dictionaries in	
	the way so that the values are shown in third dictionary.	
35.	Explain the following :	5
	(a) How do websites track you online?	(3+2)
	(b) What are cookies? How are they used by websites to track you?	
