KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION SESSION ENDING EXAMINATION 2022-23 SUB: COMPUTER SCIENCE (083)

CLASS – XI

Max. Marks: 70 FOR PRACTICE Time: 3 hours

General Instructions:

- The question paper is divided into 3 sections A,B AND C
- Programming language Python
- All questions are compulsory.

	SECTION-A	
1.	is a language processor which translates the program written in High	
	level language to Machine language in one go.	
	a). Assembler b). Interpreter c). Compiler d). Interpreter	1
	OR	
	Write the full form of -	
	(I). ISCII (II). BIOS	
2.	Which type of Memory is used to store those parts of data and instructions that are being repeatedly used by the CPU.	
	(i) RAM (ii) Cache memory	1
	(iii). ROM (iv) Secondary Memory	
3.	Boolean expression X+X' =?	
	(i) X (ii) 0 (iii) 1 (iv) X+X	
	OR	4
	Which of the following is not a characteristics of a computer?	1
	(i)Diligence (ii) I.Q	
	(iii) Accuracy (iv) Versatility	
4.	Gate gives a high output (1) if either of inputs are high.	1
5.	a. XOR b. OR c. NOR d. AND	
5.	is a software that controls a particular type of hardware device that is attached to the computer.	1
	a). Controller b). Assembler c). Device Driver d). Operating System	_
6.	is an encoding scheme that facilitates the use of Indian language on computers and	1
	provides a common standard for coding Indian Scripts.	1
7.	Write the equivalent Boolean expression for the following Logic Circuit:	2
	Ā	
	B•	
	A • · · · · · · · · · · · · · · · · · ·	
	OR	
	What do you mean by Logic Gate? Make truth table of NAND Gate.	2

8.	Convert the following base of number system:	2
	(i)(B2E) ₁₆ →() ₁₀	
	(ii) (65) ₁₀ →() ₈	
	SECTION-B	
9	is an ordered mutable sequence which can store collection of heterogeneous	
	datatypes.	
	a). string b). tuple c). dictionary d). list	
	OR	_
	What will be the output of above Python code?	1
	x=15//4 + 5**2	
	(i) 28 (ii) 8 (iii) 25 (iv) Error	
10.	Which of the following is not a valid token in Python?	
	a. Character Set b. Literals c. Identifier d. keyword	1
	,	
11.	Which of the following is known as the exponentiation operator?	
	a. % b.// c. ** d.^	1
12.	is a graphical or symbolic representation of a process. They are basically used to	
	design and document complex processes to help viewers to visualize the logic of the process.	1
	a). Flowchart b). Algorithm c). Program d). Pseudocode	
13.	function is used to remove all elements of a list.	
	a. remove() b. delete() c. clear() d. eraseall()	
	OR	
	Which of the following will give "Simon" as output?	
		1
	If str1="John,Simon,Aryan"	_
	(i) print(str1[-7:-12])	
	(ii) print(str1[-11:-7])	
	(iii) print(str1[-11:-6])	
1.1	(iv). print(str1[-7:-11])	
14.	An error is encountered while executing the following code: X=(50,20,70,100)	
	X=(30,20,70,100) X[2]=40	1
	\[\(\z\)\	1
	State the reason of the error.	
	Q15 and 16 are ASSERTION AND REASONING based questions. Mark the correct choice as (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	
15.	Assertion (A): Dictionary is an immutable data type.	
	Reason (R): In Immutable types of python, contents of objects cannot be changed after	1
	creation.	
16.	Assertion (A): A programmer works on an algorithm before writing programs.	
	Reason (R): An algorithm is a step by step instructions for solving a problem or completing a	1
	particular task.	
17.	Explain the role of indentation in Python program with 1 example.	2

	Preetil is making a code in python to print all those numbers which are divisible by 5 or7 from the given list. she is getting some errors in code. Rewrite the corrected code and underline the errors. A=[10,21,45,64,23,49] for i in A if i % 7 or 5 =0: print(A)	2
19.	Predict the output of following code snippet: (i) x, y=20,50 y, x, y=x, y-10, x+10 print(x, y) (ii) a, b=12,13 c, b=a*2,a//2 print(a, b, c)	2
	Consider the following string mySubject:	
	mySubject = "Computer Science"	
20.	What will be the output of the following string operations:	2
	A. print(mySubject[-7:-1])	
	B. print(mySubject[::-2])	
21.	What do you mean by Logical Error? How it is different from syntax error?	
21.	what do you mean by Logical Littor: flow it is different from syntax error:	2
22.	Draw a flowchart to print Greatest of 3 numbers.	
	·	3
23.	What do you mean by algorithm? Write an algorithm to take age from the user and print	1+2
	whether the user is eligible to vote or not.	1.2
24.	Find the output of the following	
	W-16	
	text="FifaWC@com"	
	L=len(text)	
	ntext="" for i in range (0.1):	
	for i in range (0,L):	
	if text[i].isupper():	3
	ntext=ntext+text[i].lower()	
	elif text[i].isalpha():	
	ntext=ntext+text[i].upper()	
	else:	
	ntext=ntext+'bb'	
	print(ntext)	
25	Considering the list given:	
	list1 = [25, 30, 56, 12, 45, 21, 7, 20]	
	a. write code to sort the list in descending order.	
	b. What will be the output of :	
	del list1[:5]	
	print(list1)	3
	c. Add a new list list2=[100,200] at the end of list1 so that the final output should	
	be:	
	list1 = [25, 30, 56, 12, 45, 21, 7, 20,100,200]	

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A). Predict the output of the following code snippet:
26.
     Dict= { 'A' : 10, 'B' : 20, 'C' : 100 , 'D' :200}
     temp=500;
     for value in Dict.values():
           temp - = value
     print("Final",temp)
      B). i).
     for a in range (15,30,5):
         if a = 20:
           continue
         print(a)
     ii).
     for a in range (15,30,5):
       if a % 20 == 0:
          break
       print(a)
      Write a program which accepts a number from the user and prints the frequency of the
27.
      number in the list LST, if number is not in the LST it should print "Number not available".
      Write a program in python which takes a string from the user and prints number of Capital
      letters, small letters, digits in the string.
28.
      Write a Python script (Program) to take an integer number from the user and test: if it is a
      Prime number, display "Prime Number" otherwise display "Not a Prime number".
29.
     The record of a student (Name, Roll No., Marks in five subjects and percentage of marks) is
     stored in the following list:
     stRecord = ['Binita','A-10', [56,98,99,72,69], 78.8]
                                                                                                       4
     Write Python statements to retrieve the following information from the list stRecord.
     (a) Percentage of the student
                                                                                                       1
      (b) Marks in the fifth subject
                                                                                                       1
      (c) Maximum marks of the student
                                                                                                       1
      (e) Change the name of the student from 'Binita' to 'Raghav'
                                                                                                       1
                                                SECTION-C
     What do you mean by E-Waste? Suggest few steps for E-Waste Disposal.
 30.
                                                                                                       2
     What are disability issues while teaching Computers? Mention any 4 issues.
 31.
                                                                                                       2
      What do you mean by net etiquettes? Mention few Social media etiquettes.
 32
                                                                                                       2
     What do you mean by IPR and Plagiarism?
 33
                                                                                                       2
     What do you mean by the term Open Source Software? Name any 2 Open Source Softwares.
                                                                                                       2
 34
     What do you mean by Phishing? How it is different from hacking?
                                                                                                       2
     Briefly explain a) .Cyber Trolling b). Spam c). Virus.
                                                                                                       3
 36.
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