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INDIAN SCHOOL SALALAH
FIRST TERM EXAMINATION – SEPTEMBER 2025



Computer Science (083)

Class: XI**Date: 18.09.2025****Time: 3 Hrs.****Maximum Marks: 70****General Instructions:**

This question paper contains 37 questions.

- All questions are compulsory. However, internal choices have been provided in some questions.
- Attempt only one of the choices in such questions.
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 3 questions (29 to 31). Each question carries 3 Marks.
- Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In-case of MCQ, text of the correct answer should also be written.

Section- A		
01	Which of the following is an input pointing device? (a) Monitor (b) Printer (c) Keyboard (d) Mouse	1
02	What will be the output of the following Python code? my_list = [10, 20, 30, 4, 50] my_list.extend([3, 100]) print(my_list) (a) [10, 20, 30, 4, 50, 3, 100] (b) [10, 20, 30, 4, 50, [3, 100]] (c) [10, 20, 30, 4, 50, 3-100] (d) None of these	1
03	An Operating System is a _____ (a) Application Software (b) Programming Language (c) System Software (d) Both (a) and (b)	1
04	'in' is a _____ operator (a) relational (b) logical (c) identity (d) membership	1
05	Select the odd one from the following (a) Microsoft Edge (b) Mozilla (c) Opera (d) Java	1
06	PROM stands for _____	1

07	Python is a low level language and open source (T/F)	1
08	How many times will 'A' be printed in the following code? <pre>i=9 while i>5: print("A") i=i-2 print("A")</pre> (a) 2 (b) 3 (c) 4 (d) Infinite times	1
09	Which of the following is not a valid identifier? (a) int1 (b) rem_time (c) lsum (d) All of these	1
10	A register is a part of Central Processing Unit (T/F)	1
11	What will be the output of the following code <pre>>>>lst=[10,20,30,40,50,60,70,80] >>>lst[50]</pre> (a) 50 (b) 80 (c) Index Error (d) Empty list	1
12	If you miss a) or ' in your Python program, which type of error will occur? (a) Run-time Error (b) Syntax Error (c) Logical Error (d) Program will execute	1
13	A compiler differs from an interpreter because: (a) Compiler translates line by line, interpreter translates whole program (b) Compiler translates whole program, interpreter translates line by line (c) Both work in the same way (d) Compiler is only used in operating systems	1
14	Which memory is the fastest and located inside the CPU? (a) Cache Memory (b) RAM (c) Hard Disk (d) ROM	1
15	In Python, which of the following is a mutable data type? (a) Tuple (b) String (c) List (d) Integer	1
16	The component that coordinates all activities of a computer is called (a) Control Unit (b) Hard disk (c) Both (a) and (b) (d) Virtual Memory	1
17	What will be the output of the following code? <pre>>>>a,b = 10,3 >>>print(a//b,a%b)</pre> (a) 3.33 1 (b) 3 1 (c) 3 1.333 (d) None of these	1
18	In Python, which operator has the highest precedence? (a) and (b) or (c) not (d) ** (exponentiation).	1
19	Which of the following statements about Python variables is true? (a) A variable must be declared with its type before use (b) Variable names can start with a digit (c) Variables are created automatically when a value is assigned (d) Variables cannot store different data types in a single program	1
Q20 and 21 are ASSERTION AND REASONING based questions. Choose the correct option from the following Both A and R are true and R is the correct explanation for A Both A and R are true and R is not the correct explanation for A		

A is True but R is False A is false but R is True		
20	Assertion (A): - List and Dictionaries both are mutable data types. Reasoning (R):- We can change the values in the list and dictionary.	1
21	Assertion (A): RAM- Random Access Memory is a volatile memory. Reason (R): ROM and RAM are parts of Secondary memory.	1
Section- B		
22	Write a short note on Application Software with examples Or Write the difference between High-level Language and Low-level Language.	2
23	(a) Find the output of the following code: <pre>L = [1, 2, 4, 3, 8, 9] for i in range(0, len(L), 2): if L[i]%2==0: print(L[i])</pre> OR (b) Write the output of the following code (i) L = [20, 30, 40, 50] L.append([60,70]) (ii) L = [20, 30, 40, 50] L.extend([60, 70])	2
24	Write the output of the following code: <pre>aDict = {'Bhavana': 3, 'Richard': 7, 'Firoza': 10, 'Arshnoor': 20} temp = 0 for v in aDict.values(): temp += v print(temp)</pre>	2
25	Distinguish between Primary Memory and Secondary Memory. With the example	2
26	Write a Python program to print the sum of all numbers from 1 to 50 which are divisible by 3 and 5.	2
27	Find the output of the following Python expression: >>>3+(4-2**3)/5+10	2
28	Rewrite the following program using a for loop. <pre>x = 10 while x<=25: print(x) x *= 2</pre>	2
Section- C		
29	Write the difference between Cache memory and Virtual memory. OR Write the difference between General Purpose Application software and Customized application software.	3
30	(a) Consider the following tuple t1 = (10, 15, 20, 25)	2+
		1

	Write a program in Python to change the value 15 to 75 (b) Rewrite the following program using for loop <pre>x = 10 while x<=25: print(x) x += 2</pre> OR (a) Write a program in Python to enter any 5 numbers and check for the existence of a number in the list. If the number is present, display its index. If the number is not present, display the message "Number Not Found". (b) Display the same list in reverse order without changing the original list.	
31	Write a program in Python to Enter any number and find the sum of every digit. E.g (Entered Number 789 output will be 24)	3
Section D		
32	Write the code for the following shape: <pre>1 212 32123 4321234 543212345</pre>	4
33	(a) Draw a flowchart for a program that takes input from the user and checks whether the number is even or odd. (b) Write a program to take a number as input from the user and find the greatest digit in that number. Example: Entered Number – 498, Greatest Digit – 9	2+ 2
34	Write a Python program to: - take a list of numbers from the user. - Makes a new list where: - Numbers divisible by 3 are multiplied by 3. - All other numbers are decreased by 1 Example: Input: [3, 5, 6, 2, 7, 9] Output: [9, 4, 18, 1, 6, 27]	4
35	(a) Predict the output of the given program <pre>a, b = 0, 1 for i in range(5): a, b = b, a + b print(a, end=" ")</pre>	2+ 2

	(b) Write the code of the following series, where n and x are entered by the user $1*x!+2*x!+3*x!+\dots+n*x!$	
Section E		
36	Consider the following dictionaries and answer the questions below: Book = {1: 'Jungle Book', 2: 'Mystery', 3: 'Comic', 4: 'Children Stories'} Library = {5: 'Madras Diaries', 6: 'Malgudi Days'} Write Python commands for the following: (a) In the dictionary Book, change the value of key 3 from 'Comic' to 'Comics-1'. (b) Display only the keys of the dictionary Book. (c) Display only the values of the dictionary Book. (d) Delete the key-value pair 4: 'Children Stories'. Write the output of the following statement: (e) <code>>>> Book.setdefault(2, 'Mystery')</code> <code>>>> print(Book)</code>	1 1 1 1 1
37	Write the output of the following given statement <code>>>>lst=[10,20,30,40,50,60,70,80,90,100]</code> <code>>>>lst[::-1]</code> <code>>>>lst[-1:-4]</code> <code>>>>lst[:5:2]</code> <code>>>>lst[1::2]</code> <code>>>>lst.pop()</code>	1 1 1 1 1