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INDIAN SCHOOL SALALAH
FIRST TERM EXAMINATION – SEPTEMBER 2026



COMPUTER SCIENCE-083

Class: **XI**Date: **16/09/2026**Time: **3 HRS**Maximum Marks: **70**

General Instructions:

1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A have 21 questions carrying 01 mark each.
4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
5. Section C has 04 Short Answer type questions carrying 03 marks each.
6. Section D has 02 questions carrying 04 marks each.
7. Section E has 03 questions carrying 05 marks each.
8. All programming questions are to be answered using Python Language only.

Section- A		
01	While processing data, CPU stores the data as well as instructions in its local memory called _____ (a) ROM (b) Cache (c) Registers (d) Hard disk	1
02	Choose the secondary memory (a) Hard disk (b) Cache (c) RAM (d) All of these	1
03	Software used for maintenance and configuration of the computer system is called _____ (a) System Utilities (b) Device Driver (c) Application Software (d) Language translators	1
04	Identify the high – level language (a) C++ (b) Java (c) Python (d) All of these	1
05	State True or False : School management system software is an example of Customized application software.	1
06	The smallest individual unit in a program is called _____ (a) list (b) token (c) dictionary (d) string	1
07	Identify the keyword (a) While (b) while (c) name (d) true	1

08	Find the output of the following expression : $7 + 12 / 3 * 2 - 4$ (a) 5 (b) -3 (c) 11 (d) 11.0	1
09	Identify the relational operator (a) + (b) AND (c) in (d) >=	1
10	Python allows us to join the contents of two or more lists using (a) Concatenation operator (b) Repetition operator (c) Membership operator (d) Multiplication operator	1
11	What will be the output of the following code ? >>>mylist = ['Welcome', 'to', 'my', 'school'] >>>print(mylist[-2][-2]) (a) my (b) t (c) m (d) to	1
12	Find the output of the following code. >>> Lst = ['abc', 'pq', 23, 78, 'mn', 12, 10, 'xy'] >>> print(Lst[-6 : -2]) (a) [10, 12, 'mn', 78] (b) [23, 78, 'mn', 12] (c) [] (d) Error	1
13	State True or False : Dictionary is an immutable data type	1
14	Write the output of the following code >>> a = {'a' : 'Apple', 'b' : 'Banana', 'c' : 'Cat'} >>> a['a'] = 'Anar' >>> print(a) (a) {'a' : 'Apple', 'a' : 'Anar', 'b' : 'Banana', 'c' : 'Cat'} (b) Error (c) {'a' : 'Anar', 'b' : 'Banana', 'c' : 'Cat'} (d) {'a' : ['Apple', 'Anar'], 'b' : 'Banana', 'c' : 'Cat'}	1
15	Which of the following statement(s) give an error after executing the following code ? Stud = {'Murugan' : 100, 'Mithu' : 95} #Statement 1 print(Stud[95]) #Statement 2 Stud['Murugan'] = 99 #Statement 3 print(Stud.pop()) #Statement 4 print(Stud) #Statement 5 (a) Statement 2 (b) Statement 3 (c) Statement 4 (d) Statements 2 and 4	1
16	Each individual character in a string can be accessed using a technique called _____ (a) Indexing (b) Method (c) Storing (d) None of these	1
17	The function which returns the string with first letter of every word in the string in uppercase and rest in lowercase. (a) capitalize() (b) title() (d) upper() (d) isupper()	1
18	What will be the output of the following code ? >>> s1 = 'Mahesh' >>> s1[2] = 'k' >>>print(s1) (a) Mahesh (b) Maheshk (c) Makesh (d) Error	1

19	Find the output of the following code <pre>>>> s1 = 'just close the door slowly' >>> print(s1.partition(' '))</pre> (a) ['just', ' ', 'close the door slowly'] (b) ['just', 'close', 'the', 'door', 'slowly'] (c) ('just', ' ', 'close the door slowly') (d) ('just', 'close', 'the', 'door', 'slowly')	
Q 20 and 21 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		
20	Assertion (A): Identifiers are part of tokens in Python. Reasoning (R): Tokens are the individual units in a program.	1
21	Assertion (A): Dictionaries in Python are mutable. Reasoning (R): The data inside a dictionary is stored as the key:value pairs enclosed within the curly braces {}.	1
Section- B		
22	Write the difference between RAM and ROM.	2
23	a) Predict the output of the following code <pre>a = 6 b = 2 for i in range(1, a): if a + b >= 6: print('*') print('hai', end = ' ')</pre> OR b) Rewrite the following program using for loop <pre>sum = 0 i = 1 while i <= 10: sum += i i = i + 1 print('Sum', sum)</pre>	2
24	Find the output of the following expression : (5 < 10) and (10 < 5) or (3 < 18) and (not 8 < 18)	2
25	Find the output of the following code segment <pre>L = [10, 12, 18, 10, 22, 12, 10, 18, 10, 22] d = { } for x in L: if x in d: d[x] = d[x] + 1 else: d[x] = 1 print(d)</pre>	2

26	Consider the following string <code>s1 = " Computer Programming "</code> write the output of the following code (i) <code>s1[5 : 10]</code> (ii) <code>s1[: : 4]</code>	2
27	Write a program to input values for x, y, z and put the value of the expression $4x^4 + 3y^3 + 9z + 6$	2
28	Identify the output of the following code: <pre> D = {1 : 'One', 2 : 'Two', 3 : 'Three'} L = [] for k, v in D.items() : if v[0] == 'T' : L.append(k) print(L) </pre> OR Write the difference between <code>update()</code> and <code>setdefault()</code> methods in dictionary with the help of suitable examples.	2
Section- C		
29	What is a language translator ? Explain the different types of language translators.	3
30	(a) Write a program which considers a list L of integers. Create two lists L1 and L2 such that L1 stores the numbers which will give the remainder 3 when divided 5 and L2 stores the numbers which will give the remainder 2 when divided by 3. Finally print L, L1 and L2 OR (b) We have a list of numbers Lst. Then write the Python commands for the following (Each carries $\frac{1}{2}$ marks) : (i) Insert the element 89 at index 4. (ii) Remove the element 32. (iii) Remove the last element from Lst. (iv) Find the index of the element 11. (v) Display the list in reverse order. (vi) Find the sum of elements in the list.	3

31	(a) Consider the following dictionary : D = {'E101' : 'Mikhael', 'E102' : 'Augustine', 'E103' : 'Clint', 'E104' : 'Steve'} Write the output of the following commands (i) D.keys() (ii) D.values() (iii) D.items() (iv) D.popitem() (v) D.get('E103') (vi) D['E105'] OR (b) Write a program in Python to create a dictionary D1 consists of student names as keys and their Term I marks (out of 100) as values. Display the number of students who got more than 85 and also display their names.	3
Section D		
32	(a) What are the different types of errors in a program? Briefly explain OR (b) Write a program in Python to input a number and display conversion into <u>string</u> <u>is not allowed:</u> (i) Sum of the digits (ii) Reverse of the number	4
33	Find the output of the following code <pre>t = 'GoODByE@26' m = "" for i in range(len(t)): if t[i].isupper(): m = m + t[i - 1] elif t[i].islower(): m = m + t[i].upper() elif t[i].isdigit(): m = m + '*' else : m = m + '#' print("The encrypted text is",m)</pre>	4
34	(a) Write a program in Python to remove all the odd numbers from the list. (b) Write a program in Python to find and display all the sum of all the values which are ending with 3 from a list.	$2 + 2 = 4$
35	(a) Write a program in Python to accept a string with multiple words and display the	4

	following : (i) The number of uppercase letters (ii) The number of lowercase letters (iii) The number of spaces (iv) The number of digits OR (b) (i) Write a program in Python to input a string and display the number of vowels in the string. (ii) Write a program in Python to accept a string and replace the character 'a' by '@'.	
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Section E

36	Mr. Ashish works as a programmer in “Universal Technologies Pvt. Ltd.”. He has designed a Library software to generate the member ship fee depending upon the membership type considering discount eligibility as well. There are 3 types of memberships available in the Library. <table><tr><th>Membership Type</th><th>Fee</th></tr><tr><td>Monthly</td><td>500</td></tr><tr><td>Quarterly</td><td>1000</td></tr><tr><td>Yearly</td><td>1500</td></tr></table> The discount eligibility is based on the following criteria: <table><tr><th>Discount Eligibility</th><th>Discount</th></tr><tr><td>Students</td><td>200</td></tr><tr><td>Others</td><td>100</td></tr></table> Write a program in Python to calculate the Net Fee to paid after inputting the Membership Type and Discount Eligibility. Display the “Amount without discount”, “Discount” and “Net Fee”. (For example, if the membership type is Quarterly and the Discount Eligibility is Students, then the Amount without discount is 1000, Discount is 200 and Net Fee is 800)	Membership Type	Fee	Monthly	500	Quarterly	1000	Yearly	1500	Discount Eligibility	Discount	Students	200	Others	100	5
Membership Type	Fee															
Monthly	500															
Quarterly	1000															
Yearly	1500															
Discount Eligibility	Discount															
Students	200															
Others	100															
37	Write a program in Python to create a dictionary PLAYER dynamically (input keys and values at runtime) which stores the name of the players as keys and the corresponding sports as values. Then create a list Lst which stores the name of the player from the dictionary PLAYER whose sports is ‘Cricket’. Finally display both PLAYER and Lst.	5														
