



Roll No

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**INDIAN SCHOOL SALALAH****FIRST TERM EXAMINATION-SEPTEMBER 2026****CLASS: XI****INFORMATICS PRACTICES (083)****DATE: 14-09-2026****Time: 3 HRS****Maximum Marks: 70****General Instructions:**

The question paper will contain 37 questions, all of which will be compulsory. It will be divided into 5 sections: A, B, C, D, and E.

- Section A will have 21 questions, each carrying 01 mark.
- Section B will consist of 07 Very Short Answer type questions, with each question carrying 02 marks.
- Section C will include 04 Short Answer type questions, and each question will carry 03 marks.
- Section D will comprise 02 questions, and each question will carry 04 marks.
- Section E will have 03 questions, with each question carrying 05 marks.
- All programming questions must be answered using the Python language exclusively.

| SECTION A |                                                                                                                                                                                                                                                                 |   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1         | Which of the following is the fastest memory?<br>a) RAM                                      b) Cache                                      c) ROM                                      d) Hard Disk                                                             | 1 |
| 2         | The full form of ALU is:<br>a) Abacus Logarithmic Unit                                      b) Arithmetic and Logical Unit<br>c) Abacus Language Unit                                      d) Arithmetic and Language Unit                                      | 1 |
| 3         | What will be the output of the following Python statement?<br>>>>int("10")+50<br>a) 1050                                      b) 1060                                      c) 60                                      d) Error                                  | 1 |
| 4         | MySQL is _____?<br>a) Hardware                                      b) RDBMS                                      c) Language                                      d) None of these                                                                             | 1 |
| 5         | _____component of a computer is responsible for processing instructions and performing calculations?<br>a) Monitor                                      b) Keyboard                                      c) CPU                                      d) Printer | 1 |
| 6         | _____Command can change the degree of a relation in MySQL.<br>a) UPDATE                                      b) ALTER                                      c) DELETE                                      d) INSERT                                             | 1 |
| 7         | Which of the following is DML (Data Manipulation Language)?<br>a) Alter                                      b) Update                                      c) Insert                                      d) Both b&c                                          | 1 |
| 8         | Python is case sensitive and platform dependent (T/F)                                                                                                                                                                                                           | 1 |

|    |                                                                                                                                                                                                                                                                                          |   |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 9  | <p>What will be the output of the following code?</p> <pre> x=3 while x&lt;5:     print(x)     x=x+2     break print(x) </pre>                                                                                                                                                           | 1 |
| 10 | <p>Which is the smallest unit of memory in a computer?</p> <p>a) Byte                      b) Bit                      c) KB                      d) Nibble</p>                                                                                                                          | 1 |
| 11 | <p>Which statement about deleting a file is correct?</p> <p>a) Deleted data can never be recovered<br/> b) Deleting a file always permanently destroys its data<br/> c) Deleted data may sometimes be recovered using recovery tools<br/> d) Deleted data is automatically encrypted</p> | 1 |
| 12 | <p>Which of the following is used to execute Python statements one at a time?</p> <p>a) Script mode                      b) Interactive mode<br/> c) Debug mode                      d) Compile mode</p>                                                                                 | 1 |
| 13 | <p>Which list method is used to add an element at a specific position?</p> <p>a) append()                      b) insert()                      c) add()                      d) extend()</p>                                                                                            | 1 |
| 14 | <p>Which of the following correctly represents a dictionary containing a student's name and marks?</p> <p>a) {"Ali", 85}                      b) ["Ali": 85]<br/> c) {"Ali": 85}                      d) ("Ali": 85)</p>                                                                 | 1 |
| 15 | <p>Which statement is used to repeatedly execute a block of code as long as a condition is true?</p> <p>a) if                      b) for                      c) while                      d) break</p>                                                                                | 1 |
| 16 | <p>What will be the output of the following code?</p> <pre> x=3 s=0 while x&lt;10:     s=s+x     x=x+2  print(s) </pre>                                                                                                                                                                  | 1 |
| 17 | <p>Which list method removes and returns an element from a list?</p> <p>a) delete()                      b) remove()                      c) pop()                      d) clear()</p>                                                                                                   | 1 |
| 18 | <p>Which symbol is used to write a single-line comment in Python?</p> <p>a) //                      b) /* */                      c) #                      d) --</p>                                                                                                                    | 1 |
| 19 | <p>Guess the output:    i) 3**2    ii) 16//4</p> <p>a) 9 and 4                      b) 6 and 4                      c) 9 and 4.0                      d) 6.0 and 4.0</p>                                                                                                                 |   |

|                  |                                                                                                                                                                                                                                                                                                                                                                        |   |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 20.              | <p>Assertion (A): - LIST and Dictionary both are mutable in size and nature.<br/>Reasoning (R): - we can change, add or remove data from both</p> <p>A. Both A and R are true, and R is the correct explanation of A.<br/>B. Both A and R are true, but R is not the correct explanation of A.<br/>C. A is true, but R is false.<br/>D. A is false, but R is true.</p> | 1 |
| 21.              | <p>Assertion (A): A primary key uniquely identifies each record in a table.<br/>Reason (R): A primary key allows duplicate or NULL values.</p> <p>A. Both A and R are true, and R is the correct explanation of A.<br/>B. Both A and R are true, but R is not the correct explanation of A.<br/>C. A is true, but R is false.<br/>D. A is false, but R is true.</p>    | 1 |
| <b>SECTION B</b> |                                                                                                                                                                                                                                                                                                                                                                        |   |
| 22               | <p>(a) Write a Python program to input a number and check whether the given number is a prime number or not.</p> <p style="text-align: center;">OR</p> <p>(b) Write a Python program to input a number and check whether the given number is divisible by both 3 and 5.</p>                                                                                            | 2 |
| 23               | <p>Write the SQL statement to make a table named STUDENTS with the following fields:<br/>roll_number, name, class_section, and contact_number. Assign an appropriate data type to each field.</p>                                                                                                                                                                      | 2 |
| 24               | <p>(a) What are the key components of a computer system, and how do they work together?<br/>Or<br/>(b) Describe the purpose of primary memory in a computer system.</p>                                                                                                                                                                                                | 2 |
| 25               | <p>(a) Write a Python program to calculate and display the sum of all numbers from 1 to 200, excluding those that are divisible by both 5 and 10.<br/>Or<br/>(b) Rewrite the program using for loop</p> <pre> sum = 0 i = 1 while i &lt;= 10:     sum = sum + i     i += 1 print("Sum = ", sum) </pre>                                                                 | 2 |
| 26               | <p>Write MySQL commands for the following</p> <p>a) To create a database Term_EXAM.<br/>b) To work in the database Term_EXAM.<br/>c) To see all the databases in MySQL<br/>d) To see all the tables in database Term_EXAM</p>                                                                                                                                          | 2 |

| 27        | <p>Write the output of the following code:</p> <pre>d = {1 : 34, 4 : 45, 5 : 29, 6 : 10, 7:42} s = 0 for i in d:     if i%2 == 0:         s += i print(s)</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                  |           |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|--------|-------|-----|---------------|--------------|-----|-----|---------------|--------------------|-----|-----|-----------|--------------|-----|-----|--------------|--------------|-----|-----|---------------|--------------|-----|---|
| 28        | <p>Write a Python program to accept the Principal Amount (P), Number of Years (N), and Rate of Interest (R) from the user and calculate and display the Simple Interest (SI) and Total Amount (TA).</p> <p>Use the following formulas:</p> <p><b>SI = (P × N × R) / 100</b><br/><b>TA = P + SI</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                  |           |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| Section C |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |           |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 29        | <p>Consider the following table BOOK and write SQL queries as per the instructions:</p> <table><tr><th>Book_ID</th><th>Book_Name</th><th>Author</th><th>Price</th></tr><tr><td>101</td><td>The Alchemist</td><td>Paulo Coelho</td><td>450</td></tr><tr><td>102</td><td>Wings of Fire</td><td>A.P.J. Abdul Kalam</td><td>350</td></tr><tr><td>103</td><td>The Guide</td><td>R.K. Narayan</td><td>450</td></tr><tr><td>104</td><td>Harry Potter</td><td>J.K. Rowling</td><td>550</td></tr><tr><td>105</td><td>The Alchemist</td><td>Paulo Coelho</td><td>450</td></tr></table> <p>a) Which column can be used as the Primary Key? Write the SQL command to set the selected column as the Primary Key.</p> <p>b) Write an SQL command to add a new column Book_Publisher with a suitable data type.</p> <p>c) Write an SQL command to display all the records from the BOOK table.</p> | Book_ID            | Book_Name | Author | Price | 101 | The Alchemist | Paulo Coelho | 450 | 102 | Wings of Fire | A.P.J. Abdul Kalam | 350 | 103 | The Guide | R.K. Narayan | 450 | 104 | Harry Potter | J.K. Rowling | 550 | 105 | The Alchemist | Paulo Coelho | 450 | 3 |
| Book_ID   | Book_Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Author             | Price     |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 101       | The Alchemist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paulo Coelho       | 450       |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 102       | Wings of Fire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A.P.J. Abdul Kalam | 350       |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 103       | The Guide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R.K. Narayan       | 450       |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 104       | Harry Potter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | J.K. Rowling       | 550       |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 105       | The Alchemist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Paulo Coelho       | 450       |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |
| 30        | <p>Write a Python program to enter 5 numbers into a list LST. Perform the following tasks:</p> <p>a) Count and display the numbers of even and odd numbers in the list.</p> <p>b) Accept a number from the user and search for it in the list. Display an appropriate message if the number is found or not found.</p> <p style="text-align: center;"><b>Or (Only for b)</b></p> <p>c) Display all the number which are divisible by 5 from the list LST.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                  |           |        |       |     |               |              |     |     |               |                    |     |     |           |              |     |     |              |              |     |     |               |              |     |   |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 31               | <p>Correct the following Python program. It contains three errors. Identify and correct all the errors and rewrite the program</p> <pre> lst = [] for i in range 5)           # Statement-1     n = int(input("Enter a number: "))     lst.add(n)               # Statement-2  Print("The numbers are:", lst)  # Statement-3 </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 |
| 32               | <p>Find the output of the following Python code:</p> <pre> for num in range(1, 5):     if num % 2 == 0:         print(num, "Even")      elif num == 5:         print(num, "Five")      else:         print(num, "Odd") </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 |
| <b>Section D</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
| 33               | <p>A school maintains the marks of students in a Python dictionary, where the Roll Number is used as the key and the marks are stored as values.</p> <p>Consider the following dictionary:</p> <p><b>marks = {101: 78, 102: 92, 103: 65, 104: 88, 105: 74}</b></p> <p>Answer the following questions:</p> <p>a) Write a Python statement to add a new student with Roll Number 106 and marks 81 to the dictionary.</p> <p>b) Write a Python statement to update the marks of Roll Number 103 to 72.</p> <p>c) Write a Python statement to display all the keys of the dictionary.</p> <p>d) Write a Python statement to delete the record of Roll Number 105.</p> <p style="text-align: center;"><b>OR</b></p> <p>Write a Python program to perform the following tasks:</p> <p>a) Accept the names of 5 countries and their capitals from the user and store them in a dictionary, where the country is the key and the capital is the value.</p> <p>b) Accept a country name from the user and display its corresponding capital. If the country is not present in the dictionary, display an appropriate message.</p> | 4 |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |              |         |     |         |     |     |     |  |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|---------|-----|---------|-----|-----|-----|--|
| 34        | <p>A teacher wants to maintain the marks obtained by students in a Python list. The following list contains the marks of 6 students:</p> <p><b>marks = [78, 65, 92, 55, 88, 74]</b></p> <p>write the python code/statement) to perform the following</p> <p>a) Write a Python statement to add the marks 81 at the end of the list.<br/>b) Write a Python statement to change the marks 55 to 60.<br/>c) Write a Python statement to display the highest marks from the list.<br/>d) Write a Python statement to display the total number of students whose marks are stored in the list.</p> | 4         |              |         |     |         |     |     |     |  |
| Section E |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |              |         |     |         |     |     |     |  |
| 35        | <p>Consider the following dictionary, where employee name is the key and salary is the value:</p> <p><b>d1 = {"Rahul": 4500, "Maneesh": 6850, "Priya": 8500}</b></p> <p>Write Python statements to perform the following operations:</p> <p>a) Store all the employee’s name of the dictionary in a list.<br/>b) Display the number of characters in each employee's name.<br/>c) Find and display the number of employees in the dictionary.<br/>d) Remove the employee "Maneesh" from the dictionary.<br/>e) Make the dictionary empty.</p>                                                 | 5         |              |         |     |         |     |     |     |  |
| 36        | <p><b>Consider the following list L:</b></p> <p>L = [12, 25, 36, 41, 53, 67, 72, 85, 91]</p> <p><b>Write the Python code/statement to perform the following:</b></p> <p>a) Add the element 30 between 25 and 36.<br/>b) Add the elements 95 and 100 together at the end of the list using a suitable method.<br/>c) Remove the element 67 from the list.<br/>d) Find the index of the element 72.<br/>e) Find the total of all the numbers from the list L.</p>                                                                                                                               | 5         |              |         |     |         |     |     |     |  |
| 37        | <p>a) A Cinema Ticket Booking System calculates the ticket amount based on the type of seat and the age category of the customer.</p> <p>The ticket prices are given below:</p> <table><tr><td>Seat Type</td><td>Ticket Price</td></tr><tr><td>Regular</td><td>150</td></tr><tr><td>Premium</td><td>250</td></tr><tr><td>VIP</td><td>400</td></tr></table>                                                                                                                                                                                                                                    | Seat Type | Ticket Price | Regular | 150 | Premium | 250 | VIP | 400 |  |
| Seat Type | Ticket Price                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |              |         |     |         |     |     |     |  |
| Regular   | 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |              |         |     |         |     |     |     |  |
| Premium   | 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |              |         |     |         |     |     |     |  |
| VIP       | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |              |         |     |         |     |     |     |  |

A discount is provided based on the age category:

| Age Category   | Discount |
|----------------|----------|
| Child          | 50       |
| Adult          | 0        |
| Senior Citizen | 70       |

Write a Python program using if-else statements to input the Seat Type and Age Category. The program should calculate and display:

a) Ticket Amount

b) Discount

c) Net Amount to be Paid

For example: If the Seat Type is Premium and the Age Category is Senior Citizen, the Ticket Amount is 250, Discount is 70, and Net Amount to be Paid is 180.

Or

b) Write the out of the given program,

```
L = [1,2,-5,9,-6,0,0,10,-2,-5,10]
```

```
pc = 0
```

```
nc = 0
```

```
zc = 0
```

```
ps = 0
```

```
ns = 0
```

```
for n in L:
```

```
    if n > 0:
```

```
        pc += 1
```

```
        ps += n
```

```
    elif n < 0:
```

```
        nc += 1
```

```
        ns += n
```

```
    else:
```

```
        zc += 1
```

```
print(pc)
```

```
print(nc)
```

```
print(zc)
```

```
print(ps)
```

```
print(ns)
```