## COMPUTER SCIENCE - Code No. 083 SAMPLE QUESTION PAPER\* Class - XII - (2025-26)

Time Allowed: 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.

Q No.	Section-A (21 x 1 = 21 Marks)					
1	State if the following statement is True or False: Using the statistics module, the output of the below statements will be 20: import statistics statistics.median([10, 20, 10, 30, 10, 20, 30])					
2	What will be the output of the following code? L = ["India", "Incredible", "Bharat"] print(L[1][0] + L[2][-1])	1				
	a) IT b) it c) It d) iT					
3	Consider the given expression: print(19<11 and 29>19 or not 75>30) Which of the following will be the correct output of the given expression? a) True b) False c) Null d) No output	1				
4	In SQL, which type of Join(s) may contain duplicate column(s)?					
5	What will be the output of the following Python code?  str= "Soft Skills"  print(str[-3::-3])  a) ISf b) Stkl c) StKi d) I	1				
6	Write the output of the following Python code:  for k in range(7,40,6):  print (k + '-')	1				
7	What will be the output of the following Python statement: print(10-3**2**2+144/12)					
8	Consider the given SQL Query: SELECT department, COUNT(*) FROM employees HAVING COUNT(*) > 5 GROUP BY department;	1				

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Saanvi is executing the query but not getting the correct output. Write to What will be the output of the following Python code?  try:     x = 10 / 0     except Exception:     print("Some other error!")     except ZeroDivisionError:     print("Division by zero error!")     a) Division by zero error!     b) Some other error!     c) ZeroDivisionError     d) Nothing is printed  10 What will be the output of the following Python code?     my_dict = {"name": "Alicia", "age": 27, "city": "DELHI"}     print(my_dict.get("profession", "Not Specified"))     a) Alicia     b)DELHI     c)None     d)Not Specifie  11 What possible output is expected to be displayed on the screen at the of the Python program from the following code?  import random     L=[10,30,50,70]     Lower=random.randint(2,2)     Upper=random.randint(2,3)     for K in range(Lower, Upper+1):         print(L[K], end="@")	1 1
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Upper=random.randint(2,3) for K in range(Lower, Upper+1):	
for K in range(Lower, Upper+1):	
print(L[K], end="@")	
1 1	
a) 50@70@ b) 90@ c) 10@30@50@ d) 10@	030@50@70@
12 What will be the output of the following Python code?	1
i = 5	
print(i,end='@@')	
def add():	
global i	
i = i+7	
print(i,end='##')	
add()	
print(i)	0.0012##12
a) 5@@12##15 b) 5@@5##12 c) 5@@12##12 d)12@  13 Which SQL command can change the cardinality of an existing relation	@ 12##12 n? 1
a) Insert b) Delete c) Both a) & b) d) Drop	ı,
	1
14 What is the output of the given Python code? st='Waterskiing is thrilling!'	1
print(st.split("i"))	
a) ['Watersk', 'ng ', 's thr', 'll', 'ng!'] b) ['Watersk', '', 'ng ', 's thr',	'll' 'nal'l
c) ['Watersk', 'ig', 's thr', 'll', 'ng!'] d) Error	,g. ]
15 In SQL, a relation consists of 5 columns and 6 rows. If 2 columns and	3 rows are added 1
to the existing relation, what will be the updated degree of a relation?	3.3.73 4.73 44404
a) Degree: 7 b) Degree: 8	
c) Degree: 9 d) Degree: 6	
16 Which SQL command is used to remove a column from a table in MyS	
a) UPDATE b) ALTER c) DROP d) DELÉT	E

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17	is a protocol used for retrieving emails from a mail server.	1
	a) SMTP b) FTP c) POP3 d) PPP	
18	Which of the following is correct about using a Hub and Switch in a computer network?  a) A hub sends data to all devices in a network, while a switch sends data to the specific device.  b) A hub sends data only to the devices it is connected to, while a switch sends data to all devices in a network.  c) A hub and switch function the same way and can be used interchangeably.	1
	d) A hub and switch are both wireless networking devices.	
19	Which of the following is used to create the structure of a web page? a) CSS b) HTML c) JavaScript d) FTP	1
a) Both b) Both c) A is T	d Q21 are Assertion(A) and Reason(R) based questions. Mark the correct choice as: A and R are True and R is the correct explanation for A. A and R are True and R is not the correct explanation for A.  Frue but R is False.  False but R is True.	
20	Assertion (A): The expression (1, 2, 3, 4).append(5) in Python will modify the original sequence datatype. Reason (R): The append() method adds an element to the end of a list and modifies the list in place.	1
21	Assertion (A): A primary key must be unique and cannot have NULL values. Reasoning (R): The primary key uniquely identifies each row in the table.	1
Q No.	Section-B ( 7 x 2=14 Marks)	Marks
22	Explain the difference between explicit and implicit type conversion in Python with a suitable example.	2
	OR	
	B. Explain the difference between break and continue statements in Python with a suitable example.	
23	The code provided below is intended to remove the first and last characters of a given string and return the resulting string. However, there are syntax and logical errors in the code.  Rewrite it after removing all the errors. Also, underline all the corrections made. define remove_first_last(str):     if len(str) < 2:         return str     new_str = str[1:-2]     return new_str  result = remove_first_last("Hello")  Print("Resulting string: " result)	2
24	A. (Answer using Python built-in methods/functions only):	2
	<ul><li>I. Write a statement to find the index of the first occurrence of the substring "good" in a string named review.</li><li>II. Write a statement to sort the elements of list L1 in descending order.</li></ul>	

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	OR	
	B. Predict the output of the following Python code:	
	text="Learn Python with fun and practice"	
	print(text.partition("with"))	
	print(text.count("a"))	
25	A. Write a function remove_element() in Python that accepts a list L and a number n. If	2
	the number n exists in the list, it should be removed. If it does not exist, print a	
	message saying "Element not found".	
	OR	
	B. Write a Python function add_contact() that accepts a dictionary phone_book, a	
	name, and a phone number. The function should add the name and phone number to	
	the dictionary. If the name already exists, print "Contact already exists" instead of	
	updating it.	
26	Predict the output of the Python code given below:	2
	emp = {"Arv": (85000,90000),"Ria": (78000,88000),"Jay": (72000,80000),"Tia":	
	(80000,70000)}	
	selected = []	
	for name in emp:	
	salary = emp[name]	
	average = (salary[0] + salary[1]) / 2	
	if average > 80000:	
	selected.append(name)	
27	print(selected)  A. Write suitable commands to do the following in MySQL.	2
21	I. View the table structure.	2
	II. Create a database named SQP	
	OR	
	B. Differentiate between drop and delete query in SQL with a suitable example.	
28	A. Define the following terms:	2
20	I. Modem	_
	II. Gateway	
	OR	
	B.	
	I. Expand the following terms: HTTP and FTP	
	II. Differentiate between web server and web browser.	
Q No.	Section-C ( 3 x 3 = 9 Marks)	Marks
29	A. Write a Python function that displays the number of times the word "Python"	3
	appears in a text file named "Prog.txt".	
	OR	
	B. Write and call a Python function to read lines from a text file STORIES.TXT and	
	display those lines which doesn't start with a vowel (A, E, I, O, U) irrespective of	
	their case.	
30	A list containing records of products as	3
	L = [("Laptop", 90000), ("Mobile", 30000), ("Pen", 50), ("Headphones", 1500)]	
	Write the following user-defined functions to perform operations on a stack named	
	Product to:	

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```
Push_element() – To push an item containing the product name and price of
              products costing more than 50 into the stack.
                  Output: [('Laptop', 90000), ('Mobile', 30000), ('Headphones', 1500)]
          II. Pop_element() – To pop the items from the stack and display them. Also, display
        'Stack Empty" when there are no elements in the stack.
                  Output:
                  ('Headphones', 1500)
                  ('Mobile', 30000)
                  ('Laptop', 90000)
                  Stack Emply
       A. Predict the output of the following Python code:
                                                                                                       3
 31
       s1="SQP-25"
       s2=""
       i=0
       while i<len(s1):
          if s1[i]>='0' and s1[i]<='9':
            Num=int(s1[i])
            Num-=1
            s2=s2+str(Num)
          elif s1[i]>='A' and s1[i]<='Z':
            s2=s2+s1[i+1]
          else:
            s2=s2+'^{\prime}
         i+=1
       print(s2)
                                                   OR
       B. Predict the output of the following Python code:
       wildlife_sanctuary = ["Kaziranga", "Ranthambhore", "Jim Corbett", "Sundarbans",
       "Periyar", "Gir", "Bandipur"]
       output = []
       for sanctuary in wildlife_sanctuary:
          if sanctuary[-1] in 'aeiou':
            output.append(sanctuary[0].upper())
       print(output)
Q No.
                                     Section-D (4 \times 4 = 16 \text{ Marks})
                                                                                                    Marks
       Consider the table SALES as given below:
 32
                                                                                                       4
                        sales_id | customer_name | product
                                                            | quantity_sold | price
                                                                        5
                        S001
                                  John Doe
                                                 Laptop
                                                                            50000
                        S002
                                  Jane Smith
                                                                        10
                                                                            30000
                                                 Smartphone
                        S003
                                  Michael Lee
                                                  Tablet
                                                                        3
                                                                            15000
                        5004
                                  Sarah Brown
                                                 Headphones
                                                                             2000
                        S005
                                  Emily Davis
                                                 Smartwatch
                                                                             8000
                        S006
                                  David
                                                                            16000
                                                 Smartwatch
                        S007
                                  Mark
                                                 Tablet
                                                                            34000
       A. Write the following gueries:
              To display the total quantity sold for each product whose total quantity sold
         Ι.
              exceeds 12.
              To display the records of SALES table sorted by Product name in descending
         II.
              order.
```

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- III. To display the distinct Product names from the SALES table.
- IV. To display the records of customers whose names end with the letter 'e'.

## OR

- B. Predict the output of the following:
  - I. SELECT \* FROM Sales where product='Tablet';
  - II. SELECT sales\_id, customer\_name FROM Sales WHERE product LIKE 'S%';
- III. SELECT COUNT(\*) FROM Sales WHERE product in ('Laptop', 'Tablet');
- IV. SELECT AVG(price) FROM Sales where product='Tablet';
- Raj is the manager of a medical store. To keep track of sales records, he has created a CSV file named Sales.csv, which stores the details of each sale.

The columns of the CSV file are: Product\_ID, Product\_Name, Quantity\_Sold and Price\_Per\_Unit.

Help him to efficiently maintain the data by creating the following user-defined functions:

- I. Accept() to accept a sales record from the user and add it to the file Sales.csv.
- II. CalculateTotalSales() to calculate and return the total sales based on the Quantity\_Sold and Price\_Per\_Unit.
- Pranav is managing a Travel Database and needs to access certain information from the Hotels and Bookings tables for an upcoming tourism survey. Help him extract the required information by writing the appropriate SQL queries as per the tasks mentioned below:

**Table: Hotels** 

+ (  H_ID +	Hotel_Name	City	   Star_Rating
1 2 3 4	Hotel1   Hotel2   Hotel3   Hotel4	Delhi   Mumbai   Hyderabad   Bengaluru	5   5   4   5
5   6 +	Hotel5 Hotel6	Chennai Kolkata	4     4   

**Table: Bookings** 

	B_ID	H_ID	Customer_Name	Check_In	Check_Out
I	1 2	1 2	   Jiya   Priya	   2024-12-01   2024-12-03	
	3	3	Alicia	2024-12-01	2024-12-06
	5	5	Bhavik   Charu	2024-12-02 2024-12-01	2024-12-03     2024-12-02
	6   7	6   6	Esha   Dia	2024-12-04   2024-12-02	2024-12-08     2024-12-06
l.	8 +	4 +	Sonia 	2024-12-04 +	2024-12-08   ++

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	I. To display a list of customer names who have bookings in any hotel of 'Delhi'						
	city.		. 1.6.9.	( (	Table I I state to		
	1		_	for customers who have	b booked notels in		
	'Mumbai', 'Ch	•		hock in data is hofora 200	24_12_03		
	III. To delete all bookings where the check-in date is before 2024-12-03.  IV. A. To display the Cartesian Product of the two tables.						
	OR						
	B. To display the customer's name along with their booked hotel's name.						
35	MySQL database named WarehouseDB has a product_inventory table in MySQL which						
	contains the following attributes:						
	Item_code: Item code (Integer)						
	Product_name     Oughtitut Oughting		• `	σ,			
	<ul><li>Quantity: Quantity of product (Integer)</li><li>Cost: Cost of product (Integer)</li></ul>						
		•	• .	n Python-MySQL connecti	vity:		
	Username: ac	<del></del>					
	<ul><li>Password: wa</li><li>Host: localhost</li></ul>		024				
			nae the Qı	uantity of the product to 91	whose Item code is		
	Write a Python program to change the Quantity of the product to 91 whose Item_code is 208 in the product_inventory table.						
Q No.		S	ection-E (2	2 X 5 = 10 Marks)		Marks	
	Mr. Davi a manage			<u> </u>	of american Facility	0.0	
36	_			needs to maintain records ployee_Name, Departmen		2+3	
	Write the Python fur		00_1D, Em	pioyoo_itamo, bopamino	it and Galary.		
	I. Input employe	ee data an		t to a binary file.			
	II. Update the salary of employees in the "IT" department to 200000.						
		XYZNova Inc. is planning a new campus in Hyderabad while maintaining its headquarters in Bengaluru. The campus will have four buildings: HR, Finance, IT, and Logistics. As a					
37	XYZNova Inc. is plar	nning a nev				5	
37	XYZNova Inc. is plar in Bengaluru. The ca	nning a nev ampus will	have four	buildings: HR, Finance, I7	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca	nning a new ampus will are tasked	have four		「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked	have four	buildings: HR, Finance, I7	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng:	have four	buildings: HR, Finance, IT osing the best network sol	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng: From HR	have four with proportion	buildings: HR, Finance, Incident best network sol	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng: From HR	have four with proportion To	buildings: HR, Finance, Incident of the best network solution Distance (in meters)	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng: From HR HR	To Finance	Distance (in meters)  50  175	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng:  From  HR  HR  HR  HR  Finance	To Finance IT Logistics	Distance (in meters)  50  175  90	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng:  From  HR  HR  HR  HR  Finance	To Finance IT Logistics IT	Distance (in meters)  50  175  90  60	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The ca network expert, you	nning a new ampus will are tasked ng:  From  HR  HR  HR  Finance  IT	To Finance IT Logistics IT Logistics Logistics	Distance (in meters)  50  175  90  60  70	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The canetwork expert, you based on the followi	nning a new ampus will are tasked ng:  From  HR  HR  HR  Finance  IT	To Finance IT Logistics IT Logistics Logistics Block:	Distance (in meters)  50  175  90  60  70	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The canetwork expert, you based on the followi	nning a new ampus will are tasked ng:  From  HR  HR  HR  Finance  Tinance  Tinance	To Finance IT Logistics IT Logistics Logistics Block:	Distance (in meters)  50 175 90 60 70	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The canetwork expert, you based on the followi	rning a new ampus will are tasked ng:  From  HR  HR  HR  Finance  Finance  IT  Frs in Each  Block	To Finance IT Logistics IT Logistics Logistics Block:	Distance (in meters)  50 175 90 60 70 60 umber of Computers	「, and Logistics. As a		
37	XYZNova Inc. is plar in Bengaluru. The canetwork expert, you based on the followi	rning a new ampus will are tasked ng:  From  HR  HR  HR  Finance  IT  ers in Each  Block  HR	To Finance IT Logistics IT Logistics Logistics Block:	Distance (in meters)  50 175 90 60 70 60  umber of Computers 60	「, and Logistics. As a		

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	Logistics	35			
I.	Suggest the best location for th	e server in the Hyderabac	campus and explain		
	your reasoning.				
II.	Suggest the placement of the fol	llowing devices:			
	a) Repeater b) Switch				
III.	Suggest and draw a cable layou	t of connections between the	ne buildings inside the		
	campus.				
IV.	The organisation plans to provide	de a high-speed link with i	ts head office using a		
	wired connection. Which of the o	cables will be most suitable	for this job?		
٧.	A. What is the use of VoIP?				
OR					
	B. Which type of network (PA	N, LAN, MAN, or WAN)	will be formed while		
	connecting the Hyderabad camp	ous to Bengaluru Headquar	ters?		

<sup>\*</sup>Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26.