

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) | Marks |
|-------|---|-------|
| 1 | State if the following statement is True or False: Using the statistics module, the output of the below statements will be 20: <code>import statistics</code> <code>statistics.median([10, 20, 10, 30, 10, 20, 30])</code> | 1 |
| 2 | What will be the output of the following code? <code>L = ["India", "Incredible", "Bharat"]</code> <code>print(L[1][0] + L[2][-1])</code> a) IT b) it c) It d) iT | 1 |
| 3 | Consider the given expression: <code>print(19<11 and 29>19 or not 75>30)</code> 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)? | 1 |
| 5 | What will be the output of the following Python code? <code>str= "Soft Skills"</code> <code>print(str[-3::-3])</code> a) ISf b) Stkl c) StKi d) l | 1 |
| 6 | Write the output of the following Python code : <code>for k in range(7,40,6):</code> <code>print (k + '-')</code> | 1 |
| 7 | What will be the output of the following Python statement: <code>print(10-3**2**2+144/12)</code> | 1 |
| 8 | Consider the given SQL Query: <code>SELECT department, COUNT(*) FROM employees HAVING COUNT(*) > 5 GROUP BY department;</code> | 1 |

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

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

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

| | | |
|---|---|--------------|
| 17 | _____ is a protocol used for retrieving emails from a mail server. a) SMTP b) FTP c) POP3 d) PPP | 1 |
| 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. d) A hub and switch are both wireless networking devices. | 1 |
| 19 | Which of the following is used to create the structure of a web page? a) CSS b) HTML c) JavaScript d) FTP | 1 |
| Q20 and Q21 are Assertion(A) and Reason(R) 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): 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 | A. Explain the difference between explicit and implicit type conversion in Python with a suitable example. OR B. Explain the difference between break and continue statements in Python with a suitable example. | 2 |
| 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): I. Write a statement to find the index of the first occurrence of the substring "good" in a string named review. II. Write a statement to sort the elements of list L1 in descending order. | 2 |

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

| | | |
|--------------|--|--------------|
| | OR | |
| | B. Predict the output of the following Python code: <pre>text="Learn Python with fun and practice" print(text.partition("with")) print(text.count("a"))</pre> | |
| 25 | A. Write a function <code>remove_element()</code> in Python that accepts a list <code>L</code> and a number <code>n</code> . If the number <code>n</code> exists in the list, it should be removed. If it does not exist, print a message saying "Element not found". <p style="text-align: center;">OR</p> B. Write a Python function <code>add_contact()</code> that accepts a dictionary <code>phone_book</code> , 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. | 2 |
| 26 | Predict the output of the Python code given below : <pre>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) print(selected)</pre> | 2 |
| 27 | A. Write suitable commands to do the following in MySQL. I. View the table structure. II. Create a database named SQP <p style="text-align: center;">OR</p> B. Differentiate between drop and delete query in SQL with a suitable example. | 2 |
| 28 | A. Define the following terms: I. Modem II. Gateway <p style="text-align: center;">OR</p> B. I. Expand the following terms: HTTP and FTP II. Differentiate between web server and web browser. | 2 |
| 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" appears in a text file named "Prog.txt". <p style="text-align: center;">OR</p> 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. | 3 |
| 30 | A list containing records of products as <pre>L = [("Laptop", 90000), ("Mobile", 30000), ("Pen", 50), ("Headphones", 1500)]</pre> Write the following user-defined functions to perform operations on a stack named Product to: | 3 |

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

I. 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 Empty

31 A. Predict the output of the following Python code:

```
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+'^'
    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 x 4 = 16 Marks)** **Marks**

32 Consider the table SALES as given below:

| sales_id | customer_name | product | quantity_sold | price |
|----------|---------------|------------|---------------|-------|
| S001 | John Doe | Laptop | 5 | 50000 |
| S002 | Jane Smith | Smartphone | 10 | 30000 |
| S003 | Michael Lee | Tablet | 3 | 15000 |
| S004 | Sarah Brown | Headphones | 7 | 2000 |
| S005 | Emily Davis | Smartwatch | 8 | 8000 |
| S006 | David | Smartwatch | 3 | 16000 |
| S007 | Mark | Tablet | 5 | 34000 |

A. Write the following queries:
 I. To display the total quantity sold for each product whose total quantity sold exceeds 12.
 II. To display the records of SALES table sorted by Product name in descending order.

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

| | <p>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'.</p> <p style="text-align: center;">OR</p> <p>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';</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|---------------|-------------|------------|-------------|---|--------|-------|---|---|--------|--------|---|---|--------|-----------|---|---|--------|-----------|---|---|--------|---------|---|---|--------|---------|---|------|------|---------------|----------|-----------|---|---|------|------------|------------|---|---|-------|------------|------------|---|---|--------|------------|------------|---|---|--------|------------|------------|---|---|-------|------------|------------|---|---|------|------------|------------|---|---|-----|------------|------------|---|---|-------|------------|------------|---|
| 33 | <p>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.</p> <p>The columns of the CSV file are: Product_ID, Product_Name, Quantity_Sold and Price_Per_Unit.</p> <p>Help him to efficiently maintain the data by creating the following user-defined functions:</p> <p>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.</p> | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | <p>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:</p> <p style="text-align: center;">Table: Hotels</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>H_ID</th> <th>Hotel_Name</th> <th>City</th> <th>Star_Rating</th> </tr> </thead> <tbody> <tr><td>1</td><td>Hotel1</td><td>Delhi</td><td>5</td></tr> <tr><td>2</td><td>Hotel2</td><td>Mumbai</td><td>5</td></tr> <tr><td>3</td><td>Hotel3</td><td>Hyderabad</td><td>4</td></tr> <tr><td>4</td><td>Hotel4</td><td>Bengaluru</td><td>5</td></tr> <tr><td>5</td><td>Hotel5</td><td>Chennai</td><td>4</td></tr> <tr><td>6</td><td>Hotel6</td><td>Kolkata</td><td>4</td></tr> </tbody> </table> <p style="text-align: center;">Table: Bookings</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>B_ID</th> <th>H_ID</th> <th>Customer_Name</th> <th>Check_In</th> <th>Check_Out</th> </tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>Jiya</td><td>2024-12-01</td><td>2024-12-05</td></tr> <tr><td>2</td><td>2</td><td>Priya</td><td>2024-12-03</td><td>2024-12-07</td></tr> <tr><td>3</td><td>3</td><td>Alicia</td><td>2024-12-01</td><td>2024-12-06</td></tr> <tr><td>4</td><td>4</td><td>Bhavik</td><td>2024-12-02</td><td>2024-12-03</td></tr> <tr><td>5</td><td>5</td><td>Charu</td><td>2024-12-01</td><td>2024-12-02</td></tr> <tr><td>6</td><td>6</td><td>Esha</td><td>2024-12-04</td><td>2024-12-08</td></tr> <tr><td>7</td><td>6</td><td>Dia</td><td>2024-12-02</td><td>2024-12-06</td></tr> <tr><td>8</td><td>4</td><td>Sonia</td><td>2024-12-04</td><td>2024-12-08</td></tr> </tbody> </table> | H_ID | Hotel_Name | City | Star_Rating | 1 | Hotel1 | Delhi | 5 | 2 | Hotel2 | Mumbai | 5 | 3 | Hotel3 | Hyderabad | 4 | 4 | Hotel4 | Bengaluru | 5 | 5 | Hotel5 | Chennai | 4 | 6 | Hotel6 | Kolkata | 4 | B_ID | H_ID | Customer_Name | Check_In | Check_Out | 1 | 1 | Jiya | 2024-12-01 | 2024-12-05 | 2 | 2 | Priya | 2024-12-03 | 2024-12-07 | 3 | 3 | Alicia | 2024-12-01 | 2024-12-06 | 4 | 4 | Bhavik | 2024-12-02 | 2024-12-03 | 5 | 5 | Charu | 2024-12-01 | 2024-12-02 | 6 | 6 | Esha | 2024-12-04 | 2024-12-08 | 7 | 6 | Dia | 2024-12-02 | 2024-12-06 | 8 | 4 | Sonia | 2024-12-04 | 2024-12-08 | 4 |
| H_ID | Hotel_Name | City | Star_Rating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Hotel1 | Delhi | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Hotel2 | Mumbai | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Hotel3 | Hyderabad | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Hotel4 | Bengaluru | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Hotel5 | Chennai | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Hotel6 | Kolkata | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B_ID | H_ID | Customer_Name | Check_In | Check_Out | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | Jiya | 2024-12-01 | 2024-12-05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | Priya | 2024-12-03 | 2024-12-07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | Alicia | 2024-12-01 | 2024-12-06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 4 | Bhavik | 2024-12-02 | 2024-12-03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 5 | Charu | 2024-12-01 | 2024-12-02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6 | Esha | 2024-12-04 | 2024-12-08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | Dia | 2024-12-02 | 2024-12-06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 4 | Sonia | 2024-12-04 | 2024-12-08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | <p>I. To display a list of customer names who have bookings in any hotel of 'Delhi' city.</p> <p>II. To display the booking details for customers who have booked hotels in 'Mumbai', 'Chennai', or 'Kolkata'.</p> <p>III. To delete all bookings where the check-in date is before 2024-12-03.</p> <p>IV. A. To display the Cartesian Product of the two tables.</p> <p style="text-align: center;">OR</p> <p>B. To display the customer's name along with their booked hotel's name.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|----------------------|----|----------------------|----|---------|----|----|----|-----|----|-----------|----|---------|----|----|---------|-----------|----|----|-----------|----|-------|---------------------|----|----|---------|----|----|----|---|
| 35 | <p>MySQL database named WarehouseDB has a product_inventory table in MySQL which contains the following attributes:</p> <ul style="list-style-type: none"> • Item_code: Item code (Integer) • Product_name: Name of product (String) • Quantity: Quantity of product (Integer) • Cost: Cost of product (Integer) <p>Consider the following details to establish Python-MySQL connectivity:</p> <ul style="list-style-type: none"> • Username: admin_user • Password: warehouse2024 • Host: localhost <p>Write a Python program to change the Quantity of the product to 91 whose Item_code is 208 in the product_inventory table.</p> | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q No. | Section-E (2 X 5 = 10 Marks) | Marks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | <p>Mr. Ravi, a manager at a tech company, needs to maintain records of employees. Each record should include: Employee_ID, Employee_Name, Department and Salary.</p> <p>Write the Python functions to:</p> <p>I. Input employee data and append it to a binary file.</p> <p>II. Update the salary of employees in the "IT" department to 200000.</p> | 2+3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | <p>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 network expert, you are tasked with proposing the best network solutions for their needs based on the following:</p> <table border="1" data-bbox="480 1424 1150 1794" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>From</th> <th>To</th> <th>Distance (in meters)</th> </tr> </thead> <tbody> <tr> <td>HR</td> <td>Finance</td> <td>50</td> </tr> <tr> <td>HR</td> <td>IT</td> <td>175</td> </tr> <tr> <td>HR</td> <td>Logistics</td> <td>90</td> </tr> <tr> <td>Finance</td> <td>IT</td> <td>60</td> </tr> <tr> <td>Finance</td> <td>Logistics</td> <td>70</td> </tr> <tr> <td>IT</td> <td>Logistics</td> <td>60</td> </tr> </tbody> </table> <p>Number of Computers in Each Block:</p> <table border="1" data-bbox="504 1832 1126 2020" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Block</th> <th>Number of Computers</th> </tr> </thead> <tbody> <tr> <td>HR</td> <td>60</td> </tr> <tr> <td>Finance</td> <td>40</td> </tr> <tr> <td>IT</td> <td>90</td> </tr> </tbody> </table> | From | To | Distance (in meters) | HR | Finance | 50 | HR | IT | 175 | HR | Logistics | 90 | Finance | IT | 60 | Finance | Logistics | 70 | IT | Logistics | 60 | Block | Number of Computers | HR | 60 | Finance | 40 | IT | 90 | 5 |
| From | To | Distance (in meters) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HR | Finance | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HR | IT | 175 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HR | Logistics | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finance | IT | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finance | Logistics | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IT | Logistics | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Block | Number of Computers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HR | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finance | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IT | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

- I. Suggest the best location for the server in the Hyderabad campus and explain your reasoning.
- II. Suggest the placement of the following devices:
a) Repeater b) Switch
- III. Suggest and draw a cable layout of connections between the buildings inside the campus.
- IV. The organisation plans to provide a high-speed link with its head office using a wired connection. Which of the cables will be most suitable for this job?
- V. A. What is the use of VoIP?
OR
B. Which type of network (PAN, LAN, MAN, or WAN) will be formed while connecting the Hyderabad campus to Bengaluru Headquarters?