

# केंद्रीय विद्यालय संगठन कोलकाता संभाग

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## प्री बोर्ड परीक्षा / PRE-BOARD EXAM- 1

कक्षा /CLASS - XII

अधिकतम अंक / MAX. MARKS: 70

विषय / SUBJECT : COMPUTER SCIENCE

समय /TIME : 3 घंटे / HRS.

प्रश्न पत्र कोड / Q. P. CODE : CS/PB2/23-01

### General Instructions:

1. Please check this question paper contains 35 questions.
2. The paper is divided into 5 Sections- A, B, C, D and E.
3. Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
4. Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
5. Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
6. Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.
7. Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
8. All programming questions are to be answered using Python Language only.

| SECTION A (18 Marks ) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1.                    | Which of the following is an invalid identifier to be used in Python?<br>a. <code>__if__</code> b. <code>rate/kg</code> c. <code>Not</code> d. <code>false</code>                                                                                                                                                                                                                                                                                                                                        | 1 |
| 2.                    | Which of the following list method adds each members of an iterable at the end of a list :<br>a. <code>extend()</code> b. <code>add_iterable()</code> c. <code>enqueue()</code> d. <code>append()</code>                                                                                                                                                                                                                                                                                                 | 1 |
| 3.                    | What will be the output of :<br><code>print( "Hey Prabhu , Jagganath , What has happened"[4:11]+"Hey Prabhu , Jagganath , What has happened"[-7:-4] )</code>                                                                                                                                                                                                                                                                                                                                             | 1 |
| 4.                    | Which of the following statements is false?<br>(I) If any error is caused in the try block an exception is raised<br>(II) All exceptions raised within try block are always a python defined library objects<br>(III) The except block removes any error which is found in the try block<br>(IV) We can put an else clause with try-except block , so that it gets executed if there is no error in the try block.<br>a. ( II )      b. ( III )      c. both ( II ) and ( III )      d. All except ( I ) | 1 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |
| 5.  | <p>Which of the following statement(s) would give an error during the execution of the following code?</p> <pre>emoji = {'rank':34 , 'rgb':(23,67,34) , 'emotion':'sad' , 'sizes':['10px',"20px","30"]}</pre> <p>(I) emoji['rank'] = '56'<br/> (II) emoji['sizes'][-1]=emoji['sizes'][-1].replace("30","30px")<br/> (III) emoji['rgb'][1]+=10<br/> (IV) emoji['emotion'][0]='d'</p> <p>a. ( I)                      b. (II)                      c. ( III )                      d. ( III ) &amp; ( IV )</p> | 1 |
| 6.  | <p>Which pickle module method is used to read a Python object to a binary file?</p> <p>a. read()      b. readline()      c. read_object()      d. None of the above</p>                                                                                                                                                                                                                                                                                                                                      | 1 |
| 7.  | <p>Given the following dictionaries</p> <pre>dict_student = {"rno" : "53", "name" : 'Rajveer Singh',                 "mob":9786745788}</pre> <p>What the following statement will generate as output:<br/> <pre>print(dict_student.get("mobile"))</pre></p> <p>a. 9786745788<br/> b. None<br/> c. KeyError<br/> d. ValueError</p>                                                                                                                                                                            | 1 |
| 8.  | <p>Which of the following is not a component of the math module in Python?</p> <p>a. ceil()      b. mean()      c. fabs()      d. pi</p>                                                                                                                                                                                                                                                                                                                                                                     | 1 |
| 9.  | <p>What will be the output of the following code?</p> <pre>s = [3,0,[2,1,2,3],1] print(s[s[len(s[2])-2][1]])</pre> <p>a. 0      b. 1      c. [2,1,2,3]      d. 2</p>                                                                                                                                                                                                                                                                                                                                         | 1 |
| 10. | <p>Expand the following terms :</p> <p>a. POP      b. ARPANET</p>                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 |
| 11. | <p>Which function is <u>not</u> an aggregate function ?</p> <p>a. sum(*)      b. total(*)      c. count(*)      d. avg(*)</p>                                                                                                                                                                                                                                                                                                                                                                                | 1 |

|     |                                                                                                                                                                                                                                                                                                                                                                             |   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 12. | <p>Which Python function is used to fire a SQL Command to a connected MYSQL database Engine ?</p> <p>a. fire( )<br/> b. commit( )<br/> c. execute( )<br/> d. run( )</p>                                                                                                                                                                                                     | 1 |
| 13  | <p>Which of the following mode in file opening statement does not overwrites any of the previous content present in the file ?</p> <p>a. w+    b. r+    c. a+    d. None of the above</p>                                                                                                                                                                                   | 1 |
| 14. | <p>Which of the following statements correctly explain the function of seek( ) method?</p> <p>a. Tells the current position within the file<br/> b. Determines if you can move the file cursor position or not.<br/> c. Indicates that the next read or write occurs from that position in a file<br/> d. Move the current file position to a given specified position.</p> | 1 |
| 15. | <p>Which of the following statements is false?</p> <p>a. SMTP and POP protocols are used in email communication.<br/> <b>b. Ethernet is the huge global network of interconnected computers</b><br/> c. HTTPS is safer than HTTP.<br/> d. Interlinking of collection of webpages is called WWW.</p>                                                                         | 1 |
| 16. | <p>_____ is a request – response ( client –server ) protocol that runs over TCP</p> <p>a. FTP<br/> b. SMTP<br/> c. HTTP<br/> d. PPP</p>                                                                                                                                                                                                                                     | 1 |
|     | <p>Q17 and 18 are ASSERTION AND REASONING based questions.<br/> Mark the correct choice as</p> <p>i. Both A and R are true and R is the correct explanation for A<br/> ii. Both A and R are true and R is not the correct explanation for A<br/> iii. A is True but R is False<br/> iv. A is false but R is True</p>                                                        |   |
| 17. | <p><b>Assertion(A):</b>Key word arguments are related to the function calls</p> <p><b>Reason(R):</b> When you use keyword arguments in a function call, the caller identifies the arguments by the parameter name</p>                                                                                                                                                       | 1 |
| 18. | <p><b>Assertion (A):</b> - The acronym for a CSV File is “ Comma Separated Value”</p> <p><b>Reasoning (R):-</b> Since the separator symbols between data elements with a line should always be a comma hence the name CSV originated.</p>                                                                                                                                   | 1 |

| <b>SECTION B ( 14 Marks)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 19.                          | <p>(a) 18 Gbps is equal to how many bits per second?<br/> (b) Write any two differences between twisted pair cable and coaxial cable.</p> <p style="text-align: center;">OR</p> <p>(a) What do you mean by a modem?<br/> (b) Write the purpose of a router.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 |
| 20.                          | <p>Sunita has written certain code to work with tuples. He is getting some errors. Find the errors:</p> <pre>t1=          (10,20,          30,          40,50,          60,          70,          80) t2=(90,100,110, 120) t3=t1*t2 Print (t5 [0:12:3]) t1[2]=100</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 |
| 21.                          | <p>Write a function dispTop(SCORES) in Python, that takes a dictionary SCORES as an argument and returns the names in uppercase of those players who scored more than 50 as a list.</p> <p>For example, Consider the following dictionary which is passed as an argument:<br/> <b>SCORES = { "ayan":56, "Smile" :43, "Pritam":18, "rehan":90, "kush":0}</b><br/> <b>Then the function should return an output list as : [AYAN , REHAN]</b></p> <p style="text-align: center;">OR</p> <p><b>Write a function ARRNG(string) which accepts a string arguments and returns a string containing all letters arranged in alphabetical order , removing any duplicate occurrence of a letter.</b><br/> <b>for example : if an string agrument "corporate" is passed then function returns an output string as "aceopr"</b></p> | 2 |
| 22.                          | <p>What will be the output of the following code?</p> <pre>Data = ["P", 20, "R", 10, "S", 30] Times = 0 Alpha = "" Add = 0 for C in range (1, 6, 2) :     Times = Times + C     Alpha = Alpha + Data [C-1]+"\$"     Add = Add + Data [C] print (Times, Add, Alpha)</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 |

23. Write the Python statement for each of the following tasks using BUILT- IN functions/methods only:  
 (a) To display only the last two keys of the dictionary named D  
 (b) To display the elements of the list Lst from index -10 to -4 in reverse order.

**OR**

Write the output of the following code snippet:  
 tup = ('cold',)  
 n = 4  
 for i in range(int(n)):  
     if i % 2 == 0:  
         tup = (tup,'cold')  
     else:  
         if i > 1:  
             continue  
         tup = (tup , 'hot')  
 print(tup)

2

24. Differentiate between 'WHERE' clause and 'HAVING' clause in MySQL with appropriate example.

**OR**

Differentiate between DELETE and DROP keywords used in MySQL,giving suitable example for each

2

25. A table, shop has been created in a database with the following fields:  
 Shop No, Shopname , Type , Category , Location  
 Give the SQL command to display the structure of the table.  
 Then after write a query to remove the record whose Shop\_No is 255 and is of category "Electronics".

**OR**

Which declaration of data type doesn't use the same number of bytes for every record and consumption of bytes depends on the input data? Which declaration of data type will consume the same number of byte declared and is right padded"?

2

**SECTION C ( 15 Marks )**

26. (a) Consider the following tables – Bank\_Account and Branch:

**BANK\_ACCOUNT**

|        |        |
|--------|--------|
| E_CODE | NAME   |
| E01    | ASHISH |
| E02    | SURESH |

**BRANCH**

|        |          |
|--------|----------|
| E_CODE | LOCATION |
| E05    | MUMBAI   |

a)What will be the output of the following statement?  
 SELECT \* FROM Bank\_Account, Branch;

1+2

(b) Write the output of the queries (i) to (iv) based on the table, TEACHER given below:

TEACHER

| TCODE | TNAME          | SUBJECT          | SEX | SALARY |
|-------|----------------|------------------|-----|--------|
| 5467  | Narendra Kumar | Computer Science | M   | 70000  |
| 6754  | Jay Prakash    | Accountancy      | M   | Null   |
| 8976  | Ajay Kumar     | Chemistry        | M   | 65000  |
| 5674  | Jhuma Nath     | English          | F   | 55000  |
| 8756  | Divya Bothra   | Computer Science | F   | 75000  |
| 6574  | Priyam Kundu   | Physics          | M   | Null   |
| 3425  | Dinesh Verma   | Economics        | M   | 71000  |

- i) SELECT DISTINCT(SUBJECT) FROM TEACHER WHERE SALARY IS NOT NULL;
- ii) SELECT SUBJECT , COUNT(\*) AS TOT\_FACUL FROM TEACHER GROUP BY SUBJECT HAVING TOT\_FACUL > 1
- iii) SELECT TNAME FROM TEACHER WHERE SEX = 'M' AND SALARY >= 70000 ORDER BY TCODE
- iv) SELECT MAX(SALARY) FROM TEACHER WHERE TCODE IN (5467,8976,3425) AND SUBJECT LIKE 'C%'

27. Write a function COUNT() in Python to read from a text file 'Gratitude.txt' and display the count of the words ending with letter 'e' in each line  
Example: If the file content is as follows:

Gratitude is a humble heart's radiant glow,  
A timeless gift that nurtures and bestows.  
It's the appreciation for the love we're shown,  
In moments big and small, it's truly known.

The COUNT() function should display the output as:  
Line 1 : 2  
Line 2 : 0  
Line 3 : 3  
Line 4 : 0

**OR**

Write a function VOWEL\_WORDS which reads a text file TESTFILE.TXT and then count and display the number of words starting with vowels 'a' or 'u' (including capital cases A and U too)  
For example is the text in the file TESTFILE.txt is :

The train from Andaman has earned the name 'Floating Train'. What is so unique about this train to receive such a name?

The expected output is :

The Number of words starting with letter 'a' is : 3  
 The Number of words starting with letter 'u' is : 1

28.

(a) Write the outputs of the SQL queries (i) to (iv) based on the relations Event and COMPANY given below:

Table : Event

| EventId | EventName     | Date       | Organizer | Budget |
|---------|---------------|------------|-----------|--------|
| 101     | Wedding       | 26/10/2019 | 1004      | 700000 |
| 102     | Birthday Bash | 05/11/2019 | 1002      | 70000  |
| 103     | Engagement    | 13/11/2019 | 1004      | 200000 |
| 104     | Wedding       | 01/12/2019 | 1003      | 800000 |
| 105     | Farewell      | 25/11/2019 | 1001      | 20000  |

Table : Company

| OrganizerId | Name  | Phone      |
|-------------|-------|------------|
| 1001        | Peter | 9745684122 |
| 1002        | Henry | 9468731216 |
| 1003        | Smith | 9357861542 |
| 1004        | Fred  | 9168734567 |

- i) SELECT Organizer, min(date) FROM Event GROUP BY Organizer;
- ii) SELECT MAX(Date),MIN(Date) FROM Event;
- iii) SELECT EventName, Name, Phone FROM Event , Company WHERE Organizer = OrganizerId AND Budget<100000;
- iv) SELECT Name, Date FROM Event, Company WHERE Phone like '%5\_2' AND Organizer = OrganizerId;

(b) Write a command to view names of all database in MySQL server.

3

29.

Naina creates a table STUDENTS with a set of records to maintain the profile of her students. After the creation of the table, she entered data of 4 students in the table. She makes ADMNO as the primary key of the table.

| ADMNO | NAME   | CLASS | SEC | RNO | ADDRESS | PHONE   |
|-------|--------|-------|-----|-----|---------|---------|
| 1211  | MEENA  | 12    | D   | 4   | A-26    | 3245678 |
| 1212  | VANI   | 10    | D   | 1   | B-25    | 5456789 |
| 1213  | MEENA  | 12    | A   | 1   | NULL    | NULL    |
| 1214  | KARISH | 10    | B   | 3   | AB-234  | 4567890 |

Based on the data given above answer the following questions:

- i) Write a SQL Command to display name and class of those students whose address is available in student's table.
- ii) Write SQL statement to delete a column phone from the table STUDENTS
- iii) If Naina does wants to consider ADMNO as Primary key and wants to create a Composite Primary Key , then identify the columns which she should take as member of such a Composite Primary Key.

3

30.

Suppose you have a list of employees with their project completion status stored in a dictionary named 'emp\_dict'. The dictionary has employee IDs as keys, and the corresponding values are tuples representing the completion status of three projects (Proj1,

3

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                             | <p>Proj2, Proj3) for each employee. Write a Python program with the following user-defined functions to perform operations on a stack named 'Proj_Stk':</p> <p>(i) Push_projects(Proj_Stk, Emp_dict): This function should push the IDs of those employees into the stack 'Proj_Stk' who have successfully completed all three projects.</p> <p>(ii) Pop_projects(Proj_Stk): This function should remove all elements from the stack in LIFO order and print them. If the stack is empty, it should display 'Stack Empty.'</p> <p>Call both functions to execute queries.</p> <p>For example:</p> <p>If the dictionary 'emp_dict' contains the following data:</p> <pre>emp_dict = {101: (True, True, True), 102: (False, True, True), 103: (True, True, False), 104: (True, True, True), 105: (False, False, False)}</pre> <p>After executing Push_projects(), Proj_Stk should contain [101, 104].</p> <p>After executing 'Pop_projects()', the output should be:</p> <pre>104 101 Stack Empty</pre> |   |
| <b>SECTION D ( 8 Marks)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
| 31.                         | <p>Create a Python function named 'highest_performer()' to analyze employee performance data stored in a CSV file named "performance_records.csv." The file contains information about employees, their projects, and performance ratings structured as follows:</p> <pre>Employee_ID, Employee_Name, Project_ID, Project_Name, Performance_Rating A01, Bijesh Mehra, P101, ProjectX, 4.5 B02, Vikram Goel, P102, ProjectY, 3.8 C09, Suraj Mehta, P103, ProjectZ, 4.2</pre> <p>The function should read the CSV file, processes the data, and displays the row with the highest performance rating. Assume that all employees have distinct performance ratings.</p>                                                                                                                                                                                                                                                                                                                                  | 4 |
| 32.                         | <p>Consider a binary file 'STUDENTS.DAT' that stores information about students using a tuple with the structure (StudentID, StudentName, Course, GPA). Write a Python function 'high_gpa_students' to read the contents of 'STUDENTS.DAT' and display details of students with a GPA higher than 3.5. Additionally, calculate and display the total count of such high-GPA students.</p> <p>For example: If the file stores the following data in binary format</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 |

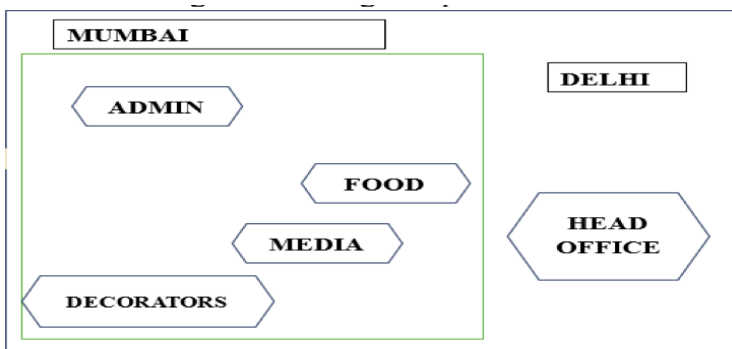


(1, 'SURAJ', 'BCA', 6.2)  
 (2, 'RAVI', 'MCA', 3.0)  
 (3, 'KRISH', 'BSC', 7.5)  
 Then the function should display :  
 Student Id : 1  
 Student Id : 3  
 Total Students scoring high GPA : 2

**SECTION E (15 Marks )**

33 ABC Media Services Ltd is an event planning organization. It is planning to set up its India campus in Mumbai with its head office in Delhi. The Mumbai campus will have four blocks/buildings - ADMIN, DECORATORS, FOOD, and MEDIA.  
 You as a network expert need to suggest the best network-related solutions for them to resolve the issues/problems mentioned in points (i) to (v), keeping in mind the distances between various blocks/buildings and other given parameters.

5



Shortest distance between various buildings:

| FROM – TO.                   | DISTANCE  |
|------------------------------|-----------|
| ADMIN TO DECORATORS          | 90 meters |
| ADMIN TO MEDIA.              | 75 meters |
| ADMIN TO FOOD                | 50 meters |
| DECORATORS TO FOOD.          | 65 meters |
| DECORATORS TO MEDIA          | 50 meters |
| FOOD TO MEDIA.               | 45 meters |
| DELHI Head Office to Campus. | 1475 KM   |
| MUMBAI                       |           |

The number of computers at various buildings is as follows:

| BUILDING.  | NUMBER OF COMPUTERS |
|------------|---------------------|
| ADMIN      | 110                 |
| DECORATORS | 75                  |
| MEDIA.     | 12                  |
| FOOD.      | 20                  |

5

- I) Suggest the most appropriate location of the server inside the MUMBAI campus (out of the 4 buildings). Justify your answer.
- II) Draw the cable layout to efficiently connect various buildings within the MUMBAI campus.

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|    | <p>III) Which hardware device will you suggest to connect all the computers within each building?</p> <p>IV) Which of the following will you suggest to establish online face-to-face communication between the people in the Admin Office of the MUMBAI campus and the DELHI Head Office?</p> <ol style="list-style-type: none"> <li>Cable TV</li> <li>Email</li> <li>Video Conferencing</li> <li>Text Chat</li> </ol> <p>V) What type of network (out of PAN, LAN, MAN, WAN) will be set up in each of the following cases?</p> <ol style="list-style-type: none"> <li>The Mumbai campus gets connected with the Head Quarter in Delhi</li> <li>The computers connected in the MUMBAI campus</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |
| 34 | <p>i) Mention Any two differences between seek() and tell()</p> <p>ii) Consider a file `BOOKS.DAT` containing multiple records. The structure of each record is as follows:</p> <p style="padding-left: 40px;">[ISBN, Title, Author, Price, Genre]</p> <p>Write a Python function named `copy_books` that copies all records from `BOOKS.DAT` where the genre is 'Mystery' into a new file named `MYSTERY_BOOKS.DAT`.</p> <p style="text-align: center;">OR</p> <p>i) Mention any two difference between binary and csv files ?</p> <p>ii) Consider a Binary file `MOVIES.DAT` containing a dictionary with multiple elements. Each element is in the form `MNO:[MNAME, MTYPE, RATING]` as a key:value pair where:</p> <ul style="list-style-type: none"> <li>- `MNO` – Movie Number</li> <li>- `MNAME` – Movie Name</li> <li>- `MTYPE` - Movie Type</li> <li>- `RATING` – Movie Rating</li> </ul> <p>Write a user-defined function, `find_high_rated_movies(rating)`, that accepts a rating as a parameter and displays all records from the binary file `MOVIES.DAT` where the movie rating is more than or equal to the rating value passed as a parameter.</p> | 2+3 |
| 35 | <p>i) Define Primary Key Constraint with a suitable example.</p> <p>ii) Marie is working with a database named EMPLOYEES, which includes a table named SALARIES. The SALARIES table has the following structure:</p> <ul style="list-style-type: none"> <li>- `EmpID` (Employee ID) - integer</li> <li>- `EmpName` (Employee Name) - string</li> <li>- `Salary` (Employee Salary) - float</li> <li>- `Department` (Employee Department) - string</li> </ul> <p>Marie needs your help to update the salary for a specific employee based on user input. Below is the Python code snippet she has written so far:</p> <pre>import mysql.connector as mysql # Complete the connection details con1 = mysql.____ ( host='localhost', user='root', password='password123', database='EMPLOYEES') # Statement-1 # Write the statement to create the cursor object mycursor = _____ # Statement-2</pre>                                                                                                                                                                                                                                                                   | 5   |

```

emp_name = input("Enter the employee name to update the salary: ")
new_salary = float(input("Enter the new salary: "))
# Complete the statement to update the salary for a specific employee
query = _____ # Statement-3
mycursor.execute(query)
# Complete the statement to save the changes in the table
con1._____() # Statement-4
print('Salary Updated successfully')
con1.close()

```

Now, answer the following questions:

- Complete statement 1 to establish the connection with the database.
- Write statement 2 to create the cursor object.
- Complete statement 3 to update the salary for a specific employee based on the user input.
- Complete statement 4 to save the changes in the table.

OR

- Write One difference between primary key and unique key ?
- A table named `EMPLOYEES` is created in a database named `COMPANY`. The table contains multiple columns whose details are as shown below:
  - `EmpID` (Employee ID) - integer
  - `EmpName` (Employee Name) - string
  - `Salary` (Employee Salary) - float
  - `Department` (Employee Department) - string

Note the following to establish connectivity between Python and MySQL:

- Username: root
- Password: password123
- Host: localhost

However, the table is to be interfaced with Python to perform certain tasks. The incomplete code is given below:

```

import _____ # Line1

con1 = mysql.connect(host='localhost', user='root', password='password123',
database='COMPANY')
mycursor = con1._____ # Line2

# iii. Complete the query given in Line 3 to display details of all such employees from the
table EMPLOYEES
# whose salary is more than 50000.
query = 'SELECT * FROM EMPLOYEES where Salary > {}'.format(_____) # Line 3
mycursor.execute(query)
data = mycursor._____ # Line 4

for rec in data:
    print(rec)

con1.close()

```

Now, answer the following:

- |  |                                                                                                                                                                                                                                                                                                                                                                         |  |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <ul style="list-style-type: none"><li>i. Complete line 1 to import the appropriate module.</li><li>ii. Complete Line 2 to create the cursor object.</li><li>iii. Complete the query given in Line 3 to display details of all such employees from the table EMPLOYEES whose salary is more than 50000.</li><li>iv. Complete Line 4 to extract all the records</li></ul> |  |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|