

**KENDRIYA VIDYALAYA SANGATHAN, CHANDIGARH REGION 2022-23
PREBOARD-I**

CLASS – XII
TIME ALLOWED: 03 HOURS
General Instructions:

COMPUTER SCIENCE (083)
M.M.: 70

1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A have 18 questions carrying 01 mark each.
4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
5. Section C has 05 Short Answer type questions carrying 03 marks each.
6. Section D has 03 Long Answer type questions carrying 05 marks each.
7. Section E has 02 questions carrying 04 marks each. One internal choice is given in Q35 against part c only.
8. All programming questions are to be answered using Python Language only.

SECTION A

| | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1. | Fill in the Blank The explicit conversion of an operand to a specific type is called ____ (a)Type casting (b) coercion (c) translation (d) None of these | 1 |
| 2. | Which of the following is not a core data type in Python? (a)Lists (b) Dictionaries (c)Tuple (d) Class | 1 |
| 3. | What will the following code do? dict={"Exam":"AISSCE", "Year":2022} dict.update({"Year":2023}) a. It will create new dictionary dict={" Year":2023}and old dictionary will be deleted b. It will throw an error and dictionary cannot updated c. It will make the content of dictionary as dict={"Exam":"AISSCE", "Year":2023} d. It will throw an error and dictionary and do nothing | 1 |
| 4. | What will be the value of the expression :14+13%15 | 1 |
| 5 | Select the correct output of the code: a= "Year 2022 at All the best" a = a.split('2') a = a[0] + ". " + a[1] + ". " + a[3] print (b) (a) Year . 0. at All the best (b) Year 0. at All the best (c) Year . 022. at All the best (d) Year . 0. at all the best | 1 |
| 6. | Which of the following mode will refer to binary data? (a)r (b) w (c) + (d) b | 1 |
| 7. | Fill in the blank: _____ command is used to remove a column from a table in SQL. (a) update (b)remove (c) alter (d)drop | 1 |
| 8. | Which of the following commands will delete the rows of table? (a) DELETE command (b) DROP Command (c) REMOVE Command (d) ALTER Command | 1 |
| 9. | Which of the following statement(s) would give an error after executing the following code? S="Welcome to class XII" # Statement 1print(S) # Statement 2 S="Thank you" # Statement 3 S[0]= '@' # Statement 4 S=S+"Thank you" # Statement 5 (a) Statement 3 (b) Statement 4 (b) Statement 5 (d) Statement 4 and 5 | 1 |
| 10. | Logical Operators used in SQL are? (a) AND,OR,NOT (b) &&, ,! (c) \$, ,! (d) None of these | 1 |

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 11 | The correct syntax of <code>seek()</code> is: (a) <code>file_object.seek(offset [, reference_point])</code> (c) <code>seek(offset, file_object)</code> <code>seek.file_object(offset)</code> (b) <code>seek(offset [, reference_point])</code> (d) | |
| 12. | Fill in the blank: All tuples in the relation are assigned NULL as the value for the new Attribute, with the _____ Command (a) <code>MODIFY</code> (b) <code>TAILOR</code> (c) <code>ELIMINATE</code> (d) <code>ALTER</code> | 1 |
| 13. | What is the size of IPv4 address? (a) 32 bits (b) 64 bits (c) 64 bytes (d) 32 bytes | 1 |
| 14. | What will be the output of the following expression? <code>24//6%3</code> , <code>24//4//2</code> , <code>48//3//4</code> a)(1,3,4) b)(0,3,4) c)(1,12,Error) d)(1,3,#error) | 1 |
| 15. | Which of the following ignores the NULL values in SQL? a) <code>Count(*)</code> b) <code>count()</code> c) <code>total(*)</code> d) None of these | 1 |
| 16. | Which of the following is not a legal method for fetching records from a database from within a Python program? (a) <code>fetchone()</code> (b) <code>fetchtwo()</code> (c) <code>fetchall()</code> (d) <code>fetchmany()</code> | 1 |
| Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as (a) Both A and R are true and R is the correct explanation for A (b) Both A and R are true and R is not the correct explanation for A (c) A is True but R is False (d) A is false but R is True | | |
| 17. | Assertion (A):- If the arguments in a function call statement match the number and order of arguments as defined in the function definition, such arguments are called positional arguments. Reasoning (R):- During a function call, the argument list first contains default argument(s) followed by positional argument(s). | 1 |
| 18. | Assertion (A): CSV (Comma Separated Values) is a file format for data storage which looks like a text file. Reason (R): The information is organized with one record on each line and each field is separated by comma. | 1 |
| SECTION B | | |
| 19. | Preety has written a code to add two numbers. Her code is having errors. Rewrite the correct code and underline the corrections made. <pre>def sum(arg1, arg2): total=arg1+arg2; print("Total:", total) return total; sum(10, 20) print("Total:", total)</pre> | 2 |
| 20. | Write two points of difference between Hub and Switch. OR Write two points of difference between Web Page and Web site. | 2 |
| 21. | Write the output of following code and explain the difference between <code>a*3</code> and <code>(a,a,a)</code> <code>a=(1,2,3)</code> <code>print(a*3)</code> <code>print(a,a,a)</code> | 2 |
| 22 | Differentiate between DDL and DML with one Example each. | 2 |
| 23 | (a) Write the full forms of the following: (i) SMTP (ii) PPP (b) What is the use of TELNET? | 2 |
| 24 | What do you understand the default argument in function? Which function parameter must be given default argument if it is used? Give example of function header to illustrate default argument OR Ravi a python programmer is working on a project, for some requirement, he has to define a function with name <code>CalculateInterest()</code> , he defined it as: <code>def CalculateInterest (Principal, Rate=.06,Time): # code</code> But this code is not working, Can you help Ravi to identify the error in the above function and what is the solution. | 2 |

| 25 | <p>Write the output of the queries (a) to (d) based on the table</p> <p>TABLE: COUNTRY</p> <table border="1"> <thead> <tr> <th>Code</th> <th>CName</th> <th>Continent</th> <th>Surface Area</th> <th>Population</th> <th>Life Expectancy</th> </tr> </thead> <tbody> <tr> <td>AFG</td> <td>Afghanistan</td> <td>Asia</td> <td>652090</td> <td>22720000</td> <td>46</td> </tr> <tr> <td>AGO</td> <td>Angola</td> <td>Africa</td> <td>1246700</td> <td>12878000</td> <td>39</td> </tr> <tr> <td>AIA</td> <td>Anguilla</td> <td>North America</td> <td>NULL</td> <td>8000</td> <td>76</td> </tr> <tr> <td>ALB</td> <td>Albania</td> <td>Europe</td> <td>28748</td> <td>3401200</td> <td>72</td> </tr> <tr> <td>ARG</td> <td>Argentina</td> <td>South America</td> <td>2780400</td> <td>37032000</td> <td>75</td> </tr> <tr> <td>ARM</td> <td>Armenia</td> <td>Asia</td> <td>29800</td> <td>3520000</td> <td>NULL</td> </tr> </tbody> </table> <p>(a) SELECT min(Population) FROM country; (b) SELECT max(SurfaceArea) FROM country Where Lifeexpectancy <50; (c) SELECT avg(LifeExpectancy) FROM country Where CName Like "%G%"; (d) SELECT Count(Distinct Continent) FROM country;</p> <p style="text-align: center;">OR</p> <p>(a) Identify the candidate key(s) from the table Country. (b) Consider the table CAPITAL given below:</p> <p>TABLE: CAPITAL</p> <table border="1"> <thead> <tr> <th>Capital_Code</th> <th>Country_Code</th> <th>Capital_Name</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>KAB</td> <td>AFG</td> <td>Kabul</td> <td>1028</td> </tr> <tr> <td>LUA</td> <td>AGO</td> <td>Luanda</td> <td>113</td> </tr> <tr> <td>BUE</td> <td>ARG</td> <td>Buenos Aires</td> <td>203</td> </tr> <tr> <td>YER</td> <td>ARM</td> <td>YEREVAN</td> <td>223</td> </tr> </tbody> </table> <p>Which field will be considered as the foreign key if the tables COUNTRY and CAPITAL are related in a database?</p> | Code | CName | Continent | Surface Area | Population | Life Expectancy | AFG | Afghanistan | Asia | 652090 | 22720000 | 46 | AGO | Angola | Africa | 1246700 | 12878000 | 39 | AIA | Anguilla | North America | NULL | 8000 | 76 | ALB | Albania | Europe | 28748 | 3401200 | 72 | ARG | Argentina | South America | 2780400 | 37032000 | 75 | ARM | Armenia | Asia | 29800 | 3520000 | NULL | Capital_Code | Country_Code | Capital_Name | Area | KAB | AFG | Kabul | 1028 | LUA | AGO | Luanda | 113 | BUE | ARG | Buenos Aires | 203 | YER | ARM | YEREVAN | 223 | 2 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|-----------------|------------|-----------------|-----|-------------|------|--------|----------|----|-----|--------|--------|---------|----------|----|-----|----------|---------------|------|------|----|-----|---------|--------|-------|---------|----|-----|-----------|---------------|---------|----------|----|-----|---------|------|-------|---------|------|--------------|--------------|--------------|------|-----|-----|-------|------|-----|-----|--------|-----|-----|-----|--------------|-----|-----|-----|---------|-----|---|
| Code | CName | Continent | Surface Area | Population | Life Expectancy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AFG | Afghanistan | Asia | 652090 | 22720000 | 46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AGO | Angola | Africa | 1246700 | 12878000 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AIA | Anguilla | North America | NULL | 8000 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALB | Albania | Europe | 28748 | 3401200 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARG | Argentina | South America | 2780400 | 37032000 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ARM | Armenia | Asia | 29800 | 3520000 | NULL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capital_Code | Country_Code | Capital_Name | Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KAB | AFG | Kabul | 1028 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUA | AGO | Luanda | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BUE | ARG | Buenos Aires | 203 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| YER | ARM | YEREVAN | 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SECTION-C

| 26 | <p>Write the outputs of the SQL queries (i) to (iii) based on the relations Teacher and Posting given below:</p> <p style="text-align: center;">Table: Stationary</p> <table border="1"> <thead> <tr> <th>S_ID</th> <th>StationaryName</th> <th>Company</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>DP01</td> <td>Dot Pen</td> <td>ABC</td> <td>10</td> </tr> <tr> <td>PL02</td> <td>Pencil</td> <td>XYZ</td> <td>6</td> </tr> <tr> <td>ER05</td> <td>Eraser</td> <td>XYZ</td> <td>7</td> </tr> <tr> <td>PL01</td> <td>Pencil</td> <td>CAM</td> <td>5</td> </tr> <tr> <td>GP02</td> <td>Gel Pen</td> <td>ABC</td> <td>15</td> </tr> </tbody> </table> <p style="text-align: center;">Table: Consumer</p> <table border="1"> <thead> <tr> <th>C_ID</th> <th>ConsumerName</th> <th>Address</th> <th>S_ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Good Learner</td> <td>Delhi</td> <td>PL01</td> </tr> <tr> <td>6</td> <td>Write Well</td> <td>Mumbai</td> <td>GP02</td> </tr> <tr> <td>12</td> <td>Topper</td> <td>Delhi</td> <td>DP01</td> </tr> <tr> <td>15</td> <td>Write & Draw</td> <td>Delhi</td> <td>PL02</td> </tr> </tbody> </table> <p>1. SELECT count(DISTINCT Address) FROM Consumer; 2. SELECT Company, MAX(Price), MIN(Price), COUNT(*) from Stationary GROUP BY Company; SELECT Consumer.ConsumerName, Stationary.StationaryName, Stationary.Price FROM Stationary, Consumer WHERE Consumer.S_ID = Stationary.S_ID;</p> | S_ID | StationaryName | Company | Price | DP01 | Dot Pen | ABC | 10 | PL02 | Pencil | XYZ | 6 | ER05 | Eraser | XYZ | 7 | PL01 | Pencil | CAM | 5 | GP02 | Gel Pen | ABC | 15 | C_ID | ConsumerName | Address | S_ID | 1 | Good Learner | Delhi | PL01 | 6 | Write Well | Mumbai | GP02 | 12 | Topper | Delhi | DP01 | 15 | Write & Draw | Delhi | PL02 | 3 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|---------|-------|------|---------|-----|----|------|--------|-----|---|------|--------|-----|---|------|--------|-----|---|------|---------|-----|----|------|--------------|---------|------|---|--------------|-------|------|---|------------|--------|------|----|--------|-------|------|----|--------------|-------|------|---|
| S_ID | StationaryName | Company | Price | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DP01 | Dot Pen | ABC | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PL02 | Pencil | XYZ | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ER05 | Eraser | XYZ | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PL01 | Pencil | CAM | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GP02 | Gel Pen | ABC | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C_ID | ConsumerName | Address | S_ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Good Learner | Delhi | PL01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Write Well | Mumbai | GP02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Topper | Delhi | DP01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Write & Draw | Delhi | PL02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. | <p>Write a function COUNT_AND() in Python to read the text file "STORY.TXT" and count the number of times "AND" occurs in the file. (include AND/and/And in the counting)</p> <p>OR</p> <p>Write a function DISPLAYWORDS() in python to display the count of words starting with "t" or "T" in a text file 'STORY.TXT'.</p> | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | <p>(Write a output for SQL queries (i) to (iii), which are based on the table: SCHOOL and ADMIN given below:</p> | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE: SCHOOL

| CODE | TEACHERNAME | SUBJECT | DOJ | PERIODS | EXPERIENCE |
|------|--------------|-----------|------------|---------|------------|
| 1001 | RAVI SHANKAR | ENGLISH | 12/03/2000 | 24 | 10 |
| 1009 | PRIYA RAI | PHYSICS | 03/09/1998 | 26 | 12 |
| 1203 | LISA ANAND | ENGLISH | 09/04/2000 | 27 | 5 |
| 1045 | YASHRAJ | MATHS | 24/08/2000 | 24 | 15 |
| 1123 | GANAN | PHYSICS | 16/07/1999 | 28 | 3 |
| 1167 | HARISH B | CHEMISTRY | 19/10/1999 | 27 | 5 |
| 1215 | UMESH | PHYSICS | 11/05/1998 | 22 | 16 |

TABLE: ADMIN

| CODE | GENDER | DESIGNATION |
|------|--------|----------------|
| 1001 | MALE | VICE PRINCIPAL |
| 1009 | FEMALE | COORDINATOR |
| 1203 | FEMALE | COORDINATOR |
| 1045 | MALE | HOD |
| 1123 | MALE | SENIOR TEACHER |
| 1167 | MALE | SENIOR TEACHER |
| 1215 | MALE | HOD |

SELECT SUM (PERIODS), SUBJECT FROM SCHOOL GROUP BY SUBJECT;
 ii) SELECT TEACHERNAME, GENDER FROM SCHOOL, ADMIN WHERE
 DESIGNATION = 'COORDINATOR' AND SCHOOL.CODE=ADMIN.CODE;
 iii) SELECT COUNT (DISTINCT SUBJECT) FROM SCHOOL;

29. Write a function INDEX_LIST(L), where L is the list of elements passed as argument to the function. The function returns another list named 'indexList' that stores the indices of all Non-Zero Elements of L.
 For example:
 If L contains [12,4,0,11,0,56]
 The indexList will have - [0,1,3,5]

30. Write a program to perform push operations on a Stack containing Student details as given in the following definition of student node:

```

RNo integer
Name String
Age integer

def isEmpty(stk):
    if stk == [ ]:
        return True
    else:
        return False

def stk_push(stk, item):
    # Write the code to push student details using stack.
  
```

OR

Write a program to perform pop operations on a Stack containing Student details as given in the following definition of student node:

```

RNo integer
Name String
Age integer

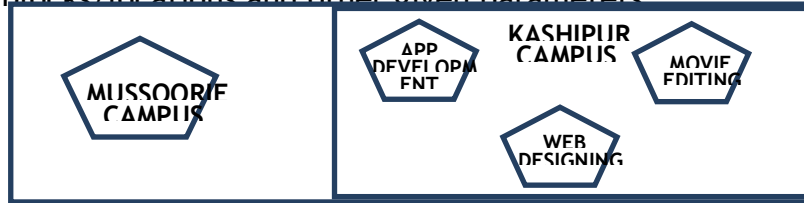
def isEmpty(stk):
    if stk == [ ]:
        return True
    else:
        return False

def stk_pop(stk):
    # Write the code to pop a student using stack
  
```

SECTION D

31. MakeInIndia Corporation, an Uttarakhand based IT training company, is planning to set up training centres in various cities in next 2 years. Their first campus is coming up in Kashipur district. At Kashipur campus, they are planning to have 3 different blocks for App development, Web designing and Movie editing. Each block has number of computers, which are required to be connected in a network for communication, data and resource sharing. As a network consultant of this company, you have to suggest the best network related solutions for them for issues/problems raised in question nos. (i) to (v), keeping in mind the distances between various Distance between various blocks/locations:

blocks/locations and other given parameters



| Block | Distance |
|-------------------------------------|----------|
| App development to Web designing | 28 m |
| App development to Movie editing | 55 m |
| Web designing to Movie editing | 32 m |
| Kashipur Campus to Mussoorie Campus | 232 km |

Number of computers

| Block | Number of Computers |
|-----------------|---------------------|
| App development | 75 |
| Web designing | 50 |
| Movie editing | 80 |

- (i) Suggest the most appropriate block/location to house the SERVER in the Kashipur campus (out of the 3 blocks) to get the best and effective connectivity. Justify your answer.
- (ii) Suggest a device/software to be installed in the Kashipur Campus to take care of data security.
- (iii) Suggest the best wired medium and draw the cable layout (Block to Block) to economically connect various blocks within the Kashipur Campus.
- (iv) Suggest the placement of the following devices with appropriate reasons:
 - a) Switch / Hub
 - b) Repeater
- (v) Suggest a protocol that shall be needed to provide Video Conferencing solution between Kashipur Campus and Mussoorie Campus.

1
1
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1

| | | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 32. | <p>(a) What will be the output of following program:</p> <pre>s="welcome2kv" n = len(s) m="" for i in range(0, n): if (s[i] >= 'a' and s[i] <= 'm'): m = m +s[i].upper() elif (s[i] >= 'n' and s[i] <= 'z'): m = m +s[i-1] elif (s[i].isupper()): m = m + s[i].lower() else: m = m +'#' print(m)</pre> <p>(b)The code given below reads the following record from the table named <code>student</code> and displays only those records who have marks greater than 75:</p> <p>RollNo - integer Name - string Clas - integer Marks - integer</p> <p>Note the following to establish connectivity between Python and MYSQL:</p> <ul style="list-style-type: none"> • Username is root • Password is tiger • The table exists in a MYSQL database named <code>school</code>. <p>Write the following missing statements to complete the code: Statement 1 - to form the cursor object Statement 2 - to execute the query that extracts records of those students whose marks are greater than 75. Statement 3- to read the complete result of the query (records whose</p> | 2+3 |
| | <p>marks are greater than 75) into the object named <code>data</code>, from the table <code>student</code> in the database.</p> <pre>import mysql.connector as mysql def sql_data(): con1=mysql.connect(host="localhost",user="root", password="tiger", database="school") mycursor=_____ #Statement 1 print("Students with marks greater than 75 are : ") _____ #Statement 2 data=_____ #Statement 3 for i in data: print(i) print()</pre> | |
| 33. | <p>What is the advantage of using a csv file for permanent storage? Write a Program in Python that defines and calls the following user defined functions:</p> <p>(i) ADD() - To accept and add data of an employee to a CSV file 'record.csv'. Each record consists of a list with field elements as <code>empid</code>, <code>name</code> and <code>mobile</code> to store employee id, employee name and employee salary respectively.</p> <p>(ii) COUNTR() - To count the number of records present in the CSV file named 'record.csv'. OR</p> <p>Give any one point of difference between a binary file and a csv file. Write a Program in Python that defines and calls the following user defined functions:</p> <p>(i) add() - To accept and add data of an employee to a CSV file 'furdata.csv'. Each record consists of a list with field elements as <code>fid</code>, <code>fname</code> and <code>fprice</code> to store furniture id, furniture name and furniture price respectively.</p> <p>(ii) search()- To display the records of the furniture whose price is more than 10000.</p> | 5 |
| SECTION E | | |

34 Write SQL commands for the following queries (i) to (v) based on the relation

4

Trainer and Course given below:

- (i) Display the Trainer Name, City & Salary in descending order of their Hiredate.
- (ii) To display the TNAME and CITY of Trainer who joined the Institute in the month of December 2001.
- (iii) To display TNAME, HIREDATE, CNAME, STARTDATE from tables TRAINER and COURSE of all those courses whose FEES is less than or equal to 10000.
- (iv) To display number of Trainers from each city.

OR

- (iv) To display the Trainer ID and Name of the trainer who are not belongs to 'Mumbai' and 'DELHI'

TRAINER

| TID | TNAME | CITY | HIREDATE | SALARY |
|-----|------------|------------|------------|--------|
| 101 | SUNAINA | MUMBAI | 1998-10-15 | 90000 |
| 102 | ANAMIKA | DELHI | 1994-12-24 | 80000 |
| 103 | DEEPTI | CHANDIGARG | 2001-12-21 | 82000 |
| 104 | MEENAKSHI | DELHI | 2002-12-25 | 78000 |
| 105 | RICHA | MUMBAI | 1996-01-12 | 95000 |
| 106 | MANIPRABHA | CHENNAI | 2001-12-12 | 69000 |

COURSE

| CID | CNAME | FEES | STARTDATE | TID |
|------|---------|-------|------------|-----|
| C201 | AGDCA | 12000 | 2018-07-02 | 101 |
| C202 | ADCA | 15000 | 2018-07-15 | 103 |
| C203 | DCA | 10000 | 2018-10-01 | 102 |
| C204 | DDTP | 9000 | 2018-09-15 | 104 |
| C205 | DHN | 20000 | 2018-08-01 | 101 |
| C206 | O LEVEL | 18000 | 2018-07-25 | 105 |

35. Anuj Kumar of class 12 is writing a program to create a CSV file "user.csv" which will contain user name and password for some entries. He has written the following code. As a programmer, help him to successfully execute the giventask.

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```
import _____ # Line 1
    def addCsvFile(UserName,PassWord): # to write / add data into the CSV file
f=open(' user.csv','_____') # Line 2
newFileWriter = csv.writer(f)
newFileWriter.writerow([UserName,PassWord])
f.close()

#csv file reading code
def readCsvFile(): # to read data from CSV file
with open(' user.csv','r') as newFile:
newFileReader = csv. _____(newFile) # Line 3
for row in newFileReader:
print (row[0],row[1])
newFile. _____ # Line 4
addCsvFile("Arjun","123@456")
addCsvFile("Arunima","aru@nima")
addCsvFile("Frieda","myname@FRD")
```

- (a) Name the module he should import in Line 1.
- (b) In which mode, Anuj should open the file to add data into the file
- (c) Fill in the blank in Line 3 to read the data from a csv file.
- (d) Fill in the blank in Line 4 to close the file.

***** End of the Paper *****