## Sample Question Paper

Class: XII Session: 2023-24
Computer Science (083)
Time allowed: 3 Hours
Maximum Marks: 70

## General Instructions:

- Please check this question paper contains 35 questions.
- The paper is divided into 4 Sections- A, B, C, D and E.
- Section A, consists of 18 questions ( 1 to 18). Each question carries 1 Mark.
- Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- Section C, consists of 5 questions ( 26 to 30). Each question carries 3 Marks.
- Section D, consists of 3 questions ( 31 to 33). Each question carries 5 Marks.
- Section E, consists of 2 questions ( 34 to 35). Each question carries 4 Marks.
- All programming questions are to be answered using Python Language only.

| Ques. No. | Question | Marks |
| :---: | :---: | :---: |
|  | SECTION A |  |
| 1 | State True or False: <br> "In a Python program, if a break statement is given in a nested loop, it terminates the execution of all loops in one go." | 1 |
| 2 | In a table in MYSQL database, an attribute A of datatype varchar (20) has the value "Keshav". The attribute B of datatype char (20) has value "Meenakshi". How many characters are occupied by attribute A and attribute $B$ ? <br> a. 20,6 <br> b. 6,20 <br> c. 9,6 <br> d. 6,9 | 1 |
| 3 | What will be the output of the following statement: print (3-2**2**3+99/11) <br> a. 244 <br> b. 244.0 <br> c. -244.0 <br> d. Error | 1 |
| 4 | Select the correct output of the code: | 1 |


|  | $s=$ "Python is fun" <br> l = s.split() <br> s_new = "-".join([l[0].upper(), l[1], l[2].capitalize()]) print (s_new) <br> Options: <br> a. PYTHON-IS-Fun <br> b. PYTHON-is-Fun <br> c. Python-is-fun <br> d. PYTHON-Is -Fun |  |
| :---: | :---: | :---: |
| 5 | In MYSQL database, if a table, Alpha has degree 5 and cardinality 3, and another table, Beta has degree 3 and cardinality 5, what will be the degree and cardinality of the Cartesian product of Alpha and Beta? <br> a. 5,3 <br> b. 8,15 <br> c. 3,5 <br> d. 15,8 | 1 |
| 6 | Riya wants to transfer pictures from her mobile phone to her laptop. She uses Bluetooth Technology to connect two devices. Which type of network will be formed in this case? <br> a. PAN <br> b. LAN <br> c. MAN <br> d. WAN | 1 |
| 7 | Which of the following will delete key-value pair for key = "Red" from a dictionary D1? <br> a. delete D1 ("Red") <br> b. del D1["Red"] <br> c. del.D1["Red"] <br> d. D1.del["Red"] | 1 |
| 8 | Consider the statements given below and then choose the correct output from the given options: <br> pride="\#G20 Presidency" <br> print(pride[-2:2:-2]) | 1 |


|  | Options <br> a. ndsr <br> b. ceieP0 <br> c. ceieP <br> d. yndsr |  |
| :---: | :---: | :---: |
| 9 | Which of the following statement(s) would give an error during execution of the following code? ```tup = (20,30,40,50,80,79) print(tup) #Statement 1 print(tup[3]+50) #Statement 2 print(max(tup)) #Statement 3 tup[4]=80 #Statement 4``` <br> Options: <br> a. Statement 1 <br> b. Statement 2 <br> c. Statement 3 <br> d. Statement 4 | 1 |
| 10 | What possible outputs(s) will be obtained when the following code is executed? <br> import random <br> myNumber=random.randint $(0,3)$ <br> COLOR=["YELLOW", "WHITE", "BLACK", "RED"] <br> for I in COLOR: <br> for $J$ in range (1,myNumber): <br> print(I, end="*") <br> print() <br> Options: <br> a. <br> RED* <br> WHITE* <br> BLACK* | 1 |


|  | RED* <br> b. <br> YELLOW* <br> WHITE* <br> BLACK* <br> RED* <br> c. <br> WHITE* WHITE* <br> YELLOW* YELLOW* <br> BLACK* BLACK* <br> RED* RED* <br> d. <br> YELLOW* <br> WHITE*WHITE* $\begin{aligned} & \text { BLACK* BLACK* BLACK* } \\ & \text { RED* RED* RED* RED* RED* } \end{aligned}$ |  |
| :---: | :---: | :---: |
| 11 | Fill in the blank: <br> The modem at the sender's computer end acts as a $\qquad$ <br> a. Model <br> b. Modulator <br> c. Demodulator <br> d. Convertor | 1 |
| 12 | ```Consider the code given below: b=100 def test(a): b=b+a # missing statement print(a,b) test(10) print(b)``` | 1 |


|  | Which of the following statements should be given in the blank for \#Missing Statement, if the output produced is 110 ? <br> Options: <br> a. global a <br> b. global b=100 <br> c. global b <br> d. global $a=100$ |  |
| :---: | :---: | :---: |
| 13 | State whether the following statement is True or False: <br> An exception may be raised even if the program is syntactically correct. | 1 |
| 14 | Which of the following statements is FALSE about keys in a relational database? <br> a. Any candidate key is eligible to become a primary key. <br> b. A primary key uniquely identifies the tuples in a relation. <br> c. A candidate key that is not a primary key is a foreign key. <br> d. A foreign key is an attribute whose value is derived from the primary key of another relation. | 1 |
| 15 | Fill in the blank: <br> In case of $\qquad$ switching, before a communication starts, a dedicated path is identified between the sender and the receiver. | 1 |
| 16 | Which of the following functions changes the position of file pointer and returns its new position? <br> a.flush() <br> b.tell() <br> c. seek () <br> d.offset() | 1 |
|  | Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as <br> (a) Both A and R are true and R is the correct explanation for A <br> (b) Both A and R are true and R is not the correct explanation for A <br> (c) $A$ is True but $R$ is False <br> (d) $A$ is false but $R$ is True |  |


| 17 | Assertion(A): List is an immutable data type <br> Reasoning(R): When an attempt is made to update the value of an immutable variable, the old variable is destroyed and a new variable is created by the same name in memory. | 1 |
| :---: | :---: | :---: |
| 18 | Assertion(A): Python standard library consists of number of modules. Reasoning( R ): A function in a module is used to simplify the code and avoids repetition. | 1 |
|  | SECTION B |  |
| 19 | (i) Expand the following terms: <br> POP3, URL <br> (ii) Give one difference between XML and HTML. | $1+1=2$ |
| 20 | The code given below accepts a number as an argument and returns the reverse number. Observe the following code carefully and rewrite it after removing all syntax and logical errors. Underline all the corrections made. ```define revNumber(num) : rev = 0 rem = 0 While num > 0: rem ==num %10 rev =rev*10 + rem num = num//10 return rev print (revNumber(1234))``` | 2 |
| 21 | Write a function countNow (PLACES) in Python, that takes the dictionary, PLACES as an argument and displays the names (in uppercase) of the places whose names are longer than 5 characters. <br> For example, Consider the following dictionary <br> PLACES=\{1:"Delhi", 2:"London", 3:"Paris", 4:"New York", 5:"Doha"\} <br> The output should be: | 2 |


|  | LONDON <br> NEW YORK <br> OR <br> Write a function, lenWords (STRING), that takes a string as an argument and returns a tuple containing length of each word of a string. <br> For example, if the string is "Come let us have some fun", the tuple will have (4, 3, 2, 4, 4, 3) |  |
| :---: | :---: | :---: |
| 22 | ```Predict the output of the following code: \(\mathrm{S}=\) "LOST" \(\mathrm{L}=[10,21,33,4]\) \(\mathrm{D}=\{ \}\) for \(I\) in range (len (S)) : if \(I \circ 2==0\) : \(\mathrm{D}[\mathrm{L} \cdot \mathrm{pop}()]=\mathrm{S}[\mathrm{I}]\) else: \(D[L \cdot p o p()]=I+3\) for \(K, V\) in \(D . i t e m s():\) print (K, V, sep="*")``` | 2 |
| 23 | Write the Python statement for each of the following tasks using BUILT- <br> IN functions/methods only: <br> (i) To insert an element 200 at the third position, in the list L1. <br> (ii) To check whether a string named, message ends with a full stop / period or not. | $1+1=2$ |
| 24 | Ms. Shalini has just created a table named "Employee" containing columns Ename, Department and Salary. <br> After creating the table, she realized that she has forgotten to add a primary key column in the table. Help her in writing an SQL command to add a primary key column EmpId of integer type to the table Employee. <br> Thereafter, write the command to insert the following record in the table: | 2 |


|  | EmpId- 999 <br> Ename- Shweta <br> Department: Production <br> Salary: 26900 |  |
| :---: | :---: | :---: |
| 25 | ```Predict the output of the following code: def Changer ( \(\mathrm{P}, \mathrm{Q}=10\) ) : \(P=P / Q\) \(Q=P \% Q\) return \(P\) \(A=200\) \(B=20\) \(A=\) Changer ( \(A, B\) ) print (A, B, sep='\$') \(B=\) Changer \((B)\) print (A, B, sep='\$', end='\#\#\#')``` | 2 |
| SECTION C |  |  |
| 26 | Predict the output of the Python code given below: ```Text1="IND-23" Text2="" I=0 while I<len(Text1): if Text1[I]>="0" and Text1[I]<="9": Val = int(Text1[I]) Val = Val + 1 Text2=Text2 + str(Val) elif Text1[I]>="A" and Text1[I]<="Z": Text2=Text2 + (Text1[I+1]) else: Text2=Text2 + "*" I+=1 print(Text2)``` | 3 |
| 27 | Consider the table CLUB given below and write the output of the SQL queries that follow. | $1 * 3=3$ |


|  | CID | CNAME | AGE | GENDER | SPORTS | PAY | DOAPP |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 5246 | AMRITA | 35 | FEMALE | CHESS | 900 | $\begin{aligned} & 2006- \\ & 03-27 \end{aligned}$ |  |
|  | 4687 | SHYAM | 37 | MALE | CRICKET | 1300 | 2004- <br> 04-15 |  |
|  | 1245 | MEENA | 23 | FEMALE | VOLLEYBALL | 1000 | $\begin{aligned} & 2007- \\ & 06-18 \end{aligned}$ |  |
|  | 1622 | AMRIT | 28 | MALE | KARATE | 1000 | $\begin{aligned} & 2007- \\ & 09-05 \end{aligned}$ |  |
|  | 1256 | AMINA | 36 | FEMALE | CHESS | 1100 | $\begin{aligned} & 2003- \\ & 08-15 \end{aligned}$ |  |
|  | 1720 | MANJU | 33 | FEMALE | KARATE | 1250 | 2004- <br> 04-10 |  |
|  | 2321 | VIRAT | 35 | MALE | CRICKET | 1050 | $\begin{aligned} & \hline 2005- \\ & 04-30 \end{aligned}$ |  |
|  |  | SELEC <br> SELEC <br> DOAPP <br> i) SEL <br> GENDE <br> 1200; | COUN <br> CNAM <br> "2006 <br> CT CN $=" M$ | T(DISTIN <br> E, SPORT <br> -04-30" <br> AME, AGE <br> ALE" AND | T SPORTS) FR <br> FROM CLUB W ND CNAME LIK PAY FROM CI PAY BETWEEN | OM C <br> HERE <br> E "\% <br> UB W <br> 1000 | UB; <br> NA"; <br> HERE <br> AND |  |
| 28 | Write those Write numb | function in nes which <br> function, of vowels | Pytho <br> egin w <br> owel <br> in the | to read a te th the word OR ount () in xt file name | t file, Alpha.t You'. <br> Python that count <br> Poem.txt. | t and <br> and d | displays <br> splays the | 3 |
| 29 | Cons Tab | r the table <br> Perso |  | nal given | ow: |  |  | $1 * 3=3$ |



|  | For example: If the nested list contains the following data: <br> NList=[["New York", "U.S.A.", 11734], <br> ["Naypyidaw", "Myanmar", 3219], <br> ["Dubai", "UAE", 2194], <br> ["London", "England", 6693], <br> ["Gangtok", "India", 1580], <br> ["Columbo", "Sri Lanka", 3405]] <br> The stack should contain: <br> ['Naypyidaw', 'Myanmar'], <br> ['Dubai', 'UAE'], <br> ['Columbo', 'Sri Lanka'] <br> The output should be: <br> ['Columbo', 'Sri Lanka'] <br> ['Dubai', 'UAE'] <br> ['Naypyidaw', 'Myanmar'] <br> Stack Empty |  |
| :---: | :---: | :---: |
|  | SECTION D |  |
| 31 | Meticulous EduServe is an educational organization. It is planning to setup its India campus at Chennai with its head office at Delhi. The Chennai campus has 4 main buildings - ADMIN, ENGINEERING, BUSINESS and MEDIA <br> Block to Block distances (in Mtrs.) | $1 * 5=5$ |


|  | ADMIN <br> ADMIN <br> ENGINEERING <br> ENGINEERING <br> BUSINESS <br> DELHI HEAD <br> OFFICE <br> Number of compu <br> ADMIN <br> ENGINEERING <br> BUSINESS <br> MEDIA <br> DELHI HEAD <br> a) Suggest and draw of buildings within devices. <br> b) Which network to form a local area <br> c) Which block, in your answer. <br> d) Which fas should preferably b campus in CHENN <br> e) Suggest a <br> Campus to take car | BUSINESS <br> MEDIA <br> BUSINESS <br> MEDIA <br> MEDIA <br> CHENNAI <br> CAMPUS <br> 110 <br> 75 <br> 40 <br> 12 <br> 20 <br> the cable layo the CHENNA <br> device will be network? <br> Chennai Camp <br> and very effe <br> e used to conne AI? <br> device/software of data security | 90 m <br> 50 m <br> 55 m <br> 50 m <br> 45 m <br> 2175 km <br> ks/Center <br> ciently con <br> for connec <br> nect com <br> be made <br> less transn ad office a <br> talled in |
| :---: | :---: | :---: | :---: |
| 32 | (i) Differentiate <br> (ii) Consider a file structure: | between $\mathrm{r}+$ an SPORT.DAT, | modes in g records |


|  | [SportName, TeamName, No_Players] <br> Write a function, copyData (), that reads contents from the file SPORT. DAT and copies the records with Sport name as "Basket <br> Ball" to the file named BASKET. DAT. The function should return the total number of records copied to the file BASKET. DAT. <br> OR <br> (Option for part (ii) only) <br> A Binary file, CINEMA. DAT has the following structure: <br> \{MNO: [MNAME, MTYPE] \} <br> Where <br> MNO - Movie Number <br> MNAME - Movie Name <br> MTYPE is Movie Type <br> Write a user defined function, findType (mtype), that accepts mtype as parameter and displays all the records from the binary file CINEMA. DAT, that have the value of Movie Type as mtype. |  |
| :---: | :---: | :---: |
| 33 | (i) Define the term Domain with respect to RDBMS. Give one example to support your answer. <br> (ii) Kabir wants to write a program in Python to insert the following record in the table named Student in MYSQL database, SCHOOL: <br> - rno(Roll number )- integer <br> - name(Name) - string <br> - DOB (Date of birth) - Date <br> - Fee - float <br> Note the following to establish connectivity between Python and MySQL: <br> - Username - root <br> - Password - tiger | $1+4=5$ |


|  | - Host - localhost <br> The values of fields rno, name, DOB and fee has to be accepted from the user. Help Kabir to write the program in Python. |  |
| :---: | :---: | :---: |
|  | SECTION E |  |
| 34 | Consider the tables PRODUCT and BRAND given below: <br> Table: PRODUCT <br> Table: BRAND <br> Write SQL queries for the following: <br> (i) Display product name and brand name from the tables PRODUCT and BRAND. <br> (ii) Display the structure of the table PRODUCT. <br> (iii) Display the average rating of Medimix and Dove brands <br> (iv) Display the name, price, and rating of products in descending order of rating. | $1 * 4=4$ |


| 35 | Vedansh is a Python programmer working in a school. For the Annual <br> Sports Event, he has created a csv file named Result.csv, to store the <br> results of students in different sports events. The structure of <br> Result. csv is : <br> [St_Id, St_Name, Game_Name, Result ] <br> Where <br> St_Id is Student ID (integer) <br> ST_name is Student Name (string) <br> Game_Name is name of game in which student is participating(string) <br> Result is result of the game whose value can be either 'Won', 'Lost' <br> or 'Tie' <br> For efficiently maintaining data of the event, Vedansh wants to write the <br> following user defined functions: <br> Accept () - to accept a record from the user and add it to the file <br> Result. csv. The column headings should also be added on top of the <br> csv file. <br> wonCount () - to count the number of students who have won any <br> event. <br> As a Python expert, help him complete the task. |  |
| :--- | :--- | :--- |

## Marking Scheme

## Class XII

## Computer Science (083)

Time Allowed: 3 hours
MM: 70

| $\frac{\text { Ques }}{\underline{\text { No }}}$ | Question and Answers | Distribution of Marks | Total Marks |
| :---: | :---: | :---: | :---: |
| SECTION A |  |  |  |
| 1 | False | 1 mark for correct answer | 1 |
| 2 | Option b $6,20$ | 1 mark for correct answer | 1 |
| 3 | Option c $-244.0$ | 1 mark for correct answer | 1 |
| 4 | PYTHON-is-Fun | 1 mark for correct answer | 1 |
| 5 | Option b $8,15$ | 1 mark for correct answer | 1 |
| 6 | Option a PAN | 1 mark for correct answer | 1 |
| 7 | Option b <br> del D1["Red"] | 1 mark for correct answer | 1 |
| 8 | Option b | 1 mark for correct answer | 1 |


|  | ceieP0 |  |  |
| :---: | :---: | :---: | :---: |
| 9 | Option d <br> Statement 4 | 1 mark for correct answer | 1 |
| 10 | Option b <br> YELLOW* <br> WHITE* <br> BLACK* <br> RED* | 1 mark for correct answer | 1 |
| 11 | Option b <br> Modulator | 1 mark for correct answer | 1 |
| 12 | Option c global b | 1 mark for correct answer | 1 |
| 13 | True | 1 mark for correct answer | 1 |
| 14 | Option c <br> A candidate key that is not a primary key is a foreign key. | 1 mark for correct answer | 1 |
| 15 | circuit | 1 mark for correct answer | 1 |
| 16 | Option c seek() | 1 mark for correct answer | 1 |


| 17 | Option d <br> A is false but R is True | 1 mark for correct answer | 1 |
| :---: | :---: | :---: | :---: |
| 18 | Option b <br> Both A and R are true but R is not the correct explanation for A | 1 mark for correct answer | 1 |
| SECTION B |  |  |  |
| 19 | (i) <br> POP3 - Post Office Protocol 3 <br> URL - Uniform Resource Locator <br> (ii) <br> HTML ( Hyper text mark Up language) <br> - We use pre-defined tags <br> - Static web development language - only focuses on how data looks <br> - It use for only displaying data, cannot transport data <br> - Not case sensistive <br> XML (Extensible Markup Language) <br> - we can define our own tags and use them <br> - Dynamic web development language - as it is used for transporting and storing data <br> - Case sensitive | $1 / 2$ mark for each correct expansion <br> 1 mark for any one correct difference No mark to be awarded if only full form is given | $1+1=2$ |
| 20 | ```def revNumber(num): rev = 0 rem = 0 while num > 0:``` | $1 / 2$ mark for each | 2 |


|  | $\begin{aligned} & \text { rem }=\text { num \%10 } \\ & \text { rev }=\text { rev*10 }+ \text { rem } \\ & \text { num }=\text { num//10 } \\ & \text { return rev } \end{aligned}$ | correction <br> made |  |
| :---: | :---: | :---: | :---: |
| 21 | ```PIACES={1:"Delhi",2:"Jondon",3:"Paris",4:"New York",5:"Dubai"} def countINow (PIACES): for place in PLACES.values(): if len(place)}>5 print(place.upper()) countNow (PIACES)``` OR def lenWords(STRING): ```T=() L=STRING.split() for word in L: length=len(word) T=T+(length,) return T``` <br> Note: Any other correct logic may be marked | $1 / 2$ mark for correct function header <br> $1 / 2$ mark for correct loop <br> $1 / 2$ mark for correct if statement <br> $1 / 2$ mark for displaying the output <br> $1 / 2$ mark for correct function header <br> $1 / 2$ mark for using split() <br> $1 / 2$ mark for adding to tuple <br> $1 / 2$ mark for return statement | 2 |


| 22 | $\begin{aligned} & 4 * \mathrm{~L} \\ & 33 * 4 \\ & 21 * \mathrm{~S} \\ & 10 * 6 \end{aligned}$ | $1 / 2$ mark for each correct line of output | 2 |
| :---: | :---: | :---: | :---: |
| 23 | (i) L1.insert $(2,200)$ <br> (ii) message.endswith('.') | 1 mark for each correct statement | 1+1=2 |
| 24 | SQL Command to add primary key: <br> ALTER TABLE Employee ADD EmpId INTEGER PRIMARY KEY; <br> As the primary key is added as the last field, the command for inserting data will be: <br> INSERT INTO Employee <br> VALUES ("Shweta","Production",26900,999); <br> OR <br> INSERT INTO <br> Employee (EmpId, Ename, Department, Salary) <br> VALUES (999,"Shweta", "Production", 26900) ; | 1 mark for correct ALTER TABLE command <br> 1 mark for correct INSERT command | 2 |
| 25 | $\begin{aligned} & 10.0 \$ 20 \\ & 10.0 \$ 2.0 \# \# \# \end{aligned}$ | 1 mark for each correct line of output | 2 |
| SECTION C |  |  |  |
| 26 | ND-*34 | $1 / 2$ mark for each correct character | 3 |
| 27 |  |  |  |



|  | ```def vowelCount(): fObj = open("Alpha.txt","r") data = str(fObj.read()) cnt=0 for ch in data: if ch in "aeiouAEIOU": cnt=cnt+1 print(cnt) fObj.close()``` <br> Note: Any other correct logic may be marked | 1 mark for correctly opening and closing the files <br> $1 / 2$ mark for correctly reading data <br> 1 mark for correct loop and if statement $1 / 2$ mark for displaying the output. |  |
| :---: | :---: | :---: | :---: |
| 29 | (i) <br> UPDATE Personal <br> SET Salary=Salary*0.5 <br> WHERE Allowance IS NOT NULL; <br> (ii) <br> SELECT Name, Salary+Allowance AS <br> "Total Salary" FROM Personal; <br> (iii) <br> DELETE FROM Personal <br> WHERE Salary>25000 | 1 mark for each correct query | 1*3=3 |


| 30 | ```travel = [] def Push_element(NList): for L in NList: if L[1] != "India" and L[2]<3500: travel.append([L[0],L[1]]) def Pop_element(): while len(travel): print(travel.pop()) else: print("Stack Empty")``` | $11 / 2$ marks for each function | 3 |
| :---: | :---: | :---: | :---: |
|  | SECTION D |  |  |
| 31 | b) Switch <br> c) Admin block, as it has maximum number of computers. <br> d) Microwave <br> e) Firewall | 1 mark for each correct answer | $1 * 5=5$ |
| 32 | (i) <br> $\mathrm{r}+$ mode: <br> - Primary function is reading <br> - File pointer is at beginning of file <br> - if the file does not exist, it results in an error $\mathrm{w}+$ mode: | 1 mark for each correct difference <br> ( minimum two differences should be given) | $2+3=5$ |



|  | Note: Any other correct logic may be marked | 1/2 mark for correct if statement <br> 1 mark for correctly displaying data |  |
| :---: | :---: | :---: | :---: |
| 33 | (i) Domain is a set of values from which an attribute can take value in each row. For example, roll no field can have only integer values and so its domain is a set of integer values <br> (ii) <br> import mysql.connector as mysql <br> con1 = mysq1.connect (host="localhost", user="root", password="tiger", database="sample2023") mycursor=con1.cursor () <br> mno = int (input("Bnter Roll Number:: ")) <br> name = input("Enter the name:: ") <br> DOB = input ("Enter date of birth:: ") <br> fee= float (innut("Enter Fee:: ")) <br> query = "INSERP into student values ( $\}$, '\{\}', '\{\}', \{\})".format (rno, name, DOB, fee) <br> mycursor. execute (query) <br> con1.comnit() <br> print ("Data added successfully") <br> con1. close() <br> Note: Any other correct logic may be marked | $1 / 2$ mark for correct definition <br> $1 / 2$ mark for correct example <br> $1 / 2$ mark for importing correct module <br> 1 mark for correct connect() <br> $1 / 2$ mark for correctly accepting the input <br> $11 / 2$ mark for correctly executing the query <br> $1 / 2$ mark for correctly using commit() | 1+4=5 |

## SECTION E

| 34 | (i) <br> SELECT PName, BName FROM PRODUCT P, <br> BRAND B WHERE P.BID=B.BID; <br> (ii) <br> DESC PRODUCT; <br> (iii) <br> SELECT BName, AVG(Rating) FROM PRODUCT <br> P, BRAND B <br> WHERE P.BID=B.BID <br> GROUP BY BName <br> HAVING BName='Medimix' OR <br> BName='Dove'; <br> (iv) <br> SELECT PName, UPrice, Rating <br> FROM PRODUCT <br> ORDER BY Rating DESC; | 1 mark for each correct query | 1*4=4 |
| :---: | :---: | :---: | :---: |
| 35 | ```def Accept(): sid=int(input("Enter Student ID ")) sname=input("Enter Student Name ") game= input("Enter name of game ") res=input("Enter Result") headings=["Student ID","Student Name"," Game Name", "Result"] data=[sid, sname, game,res] f=open('Result.csv','a',newline='') csvwriter=csv.writer(f) CSVwriter.writerow (headings) csvwriter.writerow(data) f.close()``` | 1/2 mark for accepting data correctly $1 / 2$ mark for opening and closing file <br> $1 / 2$ mark for writing headings <br> $1 / 2$ mark for writing row | 4 |


|  | ```def wonCount(): f=open('Result.csv','r') csvreader=csv.reader(f, delimiter=',') head=list(csvreader) print(head[0]) for x in head: if x[3]=="WON": print(x) f.close()``` | $1 / 2$ mark for opening and closing file $1 / 2$ mark for reader object $1 / 2$ mark for print heading $1 / 2$ mark for printing data |  |
| :---: | :---: | :---: | :---: |

