<u>5 in 1</u>

For Board Examination (2020-2021)

Class- XII

Subject- Computer Science

Time Allowed: 3 Hours

Maximum Marks: 70

General Instructions:

- 1. This question paper contains two parts A and B. Each part is compulsory.
- 2. Both Part A and Part N have choices.
- 3. Part-A has 2 sections:
 - a. Section-1 is short answer questions, to be answered in one word or one line.
 - b. Section-II has two case studies questions. Each case study has 4 case based sub-parts. An examinee is to attempt any 4 out of the 5 subparts.
- 4. Part-B is descriptive paper.
- 5. Part-B has 3 sections:
 - a. Section-I is short answer questions of 2 marks each in which two questions have internal options.
 - b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
 - c. Section-III is very long answer questions of 5 marks each in which one question has internal option.
- 6. All programming questions are to answer using Python Language only.

Q.No	PART -A	Marks Allocat ed
	SECTION-I	
	Select the most appropriate option out of the options for each question. Attempt any 15 questions from question no 1 to 21.	
1	 Which value type does input () return? (a) Boolean (b) String (c) Int (d)Float Which of the following is valid arithmetic operator in Python: 	1
2	1) What will be the value of the expression? 14 + 13 % 15 (a) 14 (b) 27 (c) 12 (d) 0 2) What will be the value of the expression? 14 * 12 % 10 (a) 4 (b) 7 (c) 12 (d) 10 3) What will be the value of the expression? $14 \% 10^*3$ (a) 14 (b) 10 (c) 12 (d) 30 4) What will be the value of the expression? (12 + 10 + 30)% 10 (a) 4 (b) 1 (c) 2 (d) 3 5) What will be the value of the expression? $(12\% 10\% 3)^{**}3$ (a) 4 (b) 2 (c) 8 (d) 12	1

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13	 Identify the valid declaration of test: test=['Python',10, 'Good', 25.45]: (a) Tuple (b) Dictionary (c) List (d) String Identify the valid declaration of test: test=('Python',10, 'Good', 25.45): (a) Tuple (b) Dictionary (c) List (d) String Identify the valid declaration of test: test=('Python',10, 'Good', 25.45): (a) Tuple (b) Dictionary (c) List (d) String Identify the valid declaration of test: test={'Python':10, 'Good': 25.45}: (a) Tuple (b) Dictionary (c) List (d) String Identify the valid declaration of test: test='Python' +str(10)+ 'Good'+ str(25.45): (a) Tuple (b) Dictionary (c) List (d) String Identify the valid declaration of test: test='Python', 10, 'Good', 25.45, [12,22,43]]: (a) nested Tuple (b) nested Dictionary (c) nested List (d) nested String 	1
14	 In SQL, Which command is used to see the list of databases? In SQL, Which command is used to see the sum of a column of databases? In SQL, Which command is used to count rows in a table In SQL, Which command is used to count rows have null values in table In SQL, Which command is used to see the list of tables in database 	1
15	 Write a statement to declare a dictionary whose keys are 'Apple', 'Mango', 'Banana' and values are 100, 250, 60 Write a statement to declare a nested list whose first values are 'Apple', 'Mango', 'Banana' and second values are 100, 250, 60 Write a statement to declare a dictionary whose keys are any 5 months and values are number of days. Write a statement to declare a dictionary whose keys are any 5 months and values are number of days. Write a statement to declare a dictionary whose keys are any 5 months and values are number of days. Write a statement to declare a dictionary whose keys are any 5 months and values are number of days. Write a statement to declare a dictionary whose keys (Countries) values (Capital) AFGHANISTAN KABUL ALBANIA TIRANA ALGERIA ALGIERS ANDORRA ANDORRA LA VELLA ANGOLA LUANDA BULGARIA SOFIA Write a statement to create list of Countries & Capital as follows AFGHANISTAN KABUL ALBANIA TIRANA ALGERIA ALGIERS ANDORRA ANDORRA LA VELLA ANGOLA LUANDA BULGARIA SOFIA Write a statement to create list of Countries & Capital as follows AFGHANISTAN KABUL ALBANIA TIRANA ALGERIA ALGIERS ANDORRA ANDORRA LA VELLA ANGOLA LUANDA BUL CAPIA SOFIA 	1
16	 Siya want to connect her office with the office of the same building. Suggest her a suitable way to connect (in terms of transmission media) Jitesh want to connect her office with the office of the other building in other city. Suggest her a suitable way to connect (in terms of transmission media) Jitesh want to connect her office with the office of the other building in other Country. Suggest her a suitable way to connect (in terms of transmission media) Jitesh want to connect her office with the office of the other building in other Country. Suggest her a suitable way to connect (in terms of transmission media) Janish Khanna used a pen drive to copy files from his friend's laptop to his office computer. Soon his computer started abnormal functioning. Sometimes it would restart by itself and sometimes it would stop different applications running on it. Which of the following options out of (i) to (iv), would have caused the malfunctioning of the computer? Justify the reason for your chosen option. Computer Virus Spam Mail Computer Bacteria Trojan Horse Ms. Raveena Sen is an IT expert and a freelancer. She recently used her skills to access the Admin password for the network server of Super Dooper Technology Ltd. and provided confidential data of the organisation to its CEO, informing him about the vulnerability of their 	1

	network security. Out of the following options (i) to (iv), which one most appropriately	
	defines Ms. Sen? Justify the reason for your chosen option:	
	Hacker	
	Cracker	
	Operator	
	Network Admin	
	1) The device that can operate in place of a hub is a	
	2) The device that can operate in place of a Switch is a	
17	3) The device that can operate in place of a Router is a	1
	 The device that can operate on the broadband speed is a 	
	5) The device's used in the video conferencing	
	1) Write short note with example on Co-axial Cable.	
10	2) Write short note with example on Untwisted Wire.	4
18	3) Write short note with example on Telephone Lines.	1
	4) Write short note with example on Flore Optic	
	5) write short note with example on satellite data transmission.	
	1) INSERT INTO command is a DML command. (True/Faise) 2) Alter command is a DML command. (True/Faise)	
10	2) Anter command is a DML command (True/False) 2) Undate command is a DDL command (True/False)	1
19	4) Dron command is a DDL command (True/False)	1
	5) Delete command is a DDL command (True/False)	
	1) Rearrange the following terms in increasing order of data transfer rates	
	GBPS, GBPS, KBPS, KBPS	
	2) Rearrange the following terms in decreeing order of data transfer rates.	
	GBPS, GBPS, KBPS, KBPS, BPS	
20	3) Rearrange the following terms in increasing order of size.	1
20	1 GBPS, 100 GBPS, 100*100 KBPS, 10 ¹⁰ *10 ¹⁰ KBPS	I
	4) Rearrange the following terms in decreeing order of size.	
	1 GBPS, 100 GBPS, 100*100 KBPS, 10 ¹⁰ *10 ¹⁰ KBPS	
	5) Rearrange the following terms in increasing order of length.	
	[1,2,3,4,5], [[1,2],[3,4],[5,7],11,15, [11,23]], [[1,2,3,4],[1,3]], [1,2,3,[1,2,2,4,],[4,3,9]]	
	1) Write short note with example on GROUP BY command.	
24	2) Write short note with example on SELECT command.	4
21	3) Write short note with example on WHERE cause.	1
	4) Write short note with example on having cause.	
	5) write short note with example on sub query.	
	SECTION-II	
	Both the case study based questions are compulsory. Attempt any 4 sub parts from each	
	question. Each question carry 1 mark.	
	1. A company Suprise Ltd. Is considering to manage the records of their employees using SOL to	
	store the data. As a database administrator. Harish has decided that:	
	Name of the database: Employee	
	Name of the table : Empl	
	The attributes of Empl are as follows:	
	EmpId - Numeric	
	Empname - character of size 20	
	Salary - Numeric	
22	Date_of_Joining - Date	
	EmpId Empname Salary Date_of_Joining	
	1001 Mr. Khanna 50000 23-10-2018	
	1002 Mr. Roy 35000 22-04-2017	
	1004 Ms. Sehgal 25000 23-08-2016	
	1008 Mr. Pahwa 30000 15-10-2019	
	1006 Ms. Sharma 20000 14-12-2019	
	1005 Mr. Bhalla 25000 12-09-2020	
		1

(d) W (e) H	moved. Write the query for rite a query to increase the arish wants to see the strue	r the same. e salary of all the em cture of the table 'Er	ployees by 5 npl'. Help hin	000. n to do the same.			
2. Given below a table, write SQL query for part (i) to (v)							
RELATION: BOOKHOUSE							
⊕ No.	Title	Author	Subject	Publisher	Otv.	Pric	
1	Data Structure	Lips chute	DS	McGraw	4	217.	
2	DOS Guide	Nortron	05	PHI	3	175	
2	Turboc C++	Robert Lafore	Prog	Galgotia	5	270	
1	Dhase Dummies	Dalmar	DRMG	Dustal-M	7	130	
4	Mostoring Windows	Convert	DDMS		/ 1	130.	
3	Mastering windows	Cowart	05	BPB Cal. f	1	223.	
6	Computer Studies	French	FND	Galgotia	2	/5.0	
7	COBOL	Stern	Prog	John W	4	1000	
	Guida Natwork	Freed	NET	Zpress	3	200.	
8	Guide Network	11000					
8 9	Basic for Beginners	Norton	Prog	BPB	3	40.0	
8 9 10 ii) iii) iii) iv)	Display title of all books Display title and author of Display title, price in des	Norton Schildt with price between of all the books havi and average price f cending order of pri	Prog Prog 100 and 300 ng type "Prog for each type ice	BPB McGraw g" and published of publisher	3 4 by BPB.	40.0	
8 9 10 ii) iii) iii) iv) v) 3. A th • Ni • Ni • Ti ItemNo - I ItemNam	Outlide Network Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display title, price in des Display title, price in des Display all the books who departmental store MyStore e data. As a database admit ame of the database - myst ame of the table - STORE he attributes of STORE are numeric e - character of size 20	Norton Schildt with price between of all the books havi and average price f cending order of pri ere title starts with re is considering to r nister, Abhay has de ore as follows:	Prog Prog 100 and 300 ng type "Prog for each type ice 'D" and qty is maintain thei ecided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iv) v) 3. A th • Ni • Ni • Ni • Ti ItemNo - ItemNam Scode - ni Quantity	Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display title and author of Display title, price in des Display title, price in des Display all the books who departmental store MyStore e data. As a database admit ame of the database - myst ame of the table - STORE he attributes of STORE are numeric e - character of size 20 imeric - numeric Table : STORE	Norton Schildt with price between of all the books having and average price of cending order of pri- cere title starts with the starts with the re is considering to pri- nister, Abhay has de ore as follows:	Prog Prog 100 and 300 ng type "Prog for each type (D" and qty is maintain the ecided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iv) v) 3. A th • Ni • Ni • Ti ItemNo Scode - ni Quantity	Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display title and author of Display title, price in des Display all the books who departmental store MyStore e data. As a database admi ame of the database - myst ame of the table - STORE he attributes of STORE are numeric e - character of size 20 imeric - numeric Table : STORE	Norton Schildt with price between of all the books having and average price of cending order of price of the starts with th	Prog Prog 100 and 300 ng type "Prog for each type (D" and qty is maintain their ecided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iv) v) 3. A th • Ni • Ni ItemNo - 1 ItemNo - 1 ItemNo 2005	Outlide Network Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display number of books Display number of books Display title, price in des Display all the books who departmental store MyStore e data. As a database admit ame of the database - myst ame of the table - STORE ne attributes of STORE are numeric e - character of size 20 Imeric - numeric Sharpener Classic	Norton Schildt with price between of all the books having and average price of cending order of pri- cere title starts with the re is considering to pri- ere is considering to pri- cere is consi considering to pri- cere is consideris consi	Prog Prog 100 and 300 ng type "Prog for each type (D" and qty is maintain their cided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iii) iv) v) 3. A th • Ni • Ni • Ni • Ti ItemNo Scode - ni Quantity • ItemNo 2005 2003	Outlide Network Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display title and author of Display title, price in des Display title, price in des Display all the books who departmental store MyStore e data. As a database admit ame of the database - myst ame of the table - STORE he attributes of STORE are numeric e - character of size 20 imeric - numeric Table : STO ItemName Sharpener Classic Ball Pen 0.25	Norton Schildt with price between of all the books having and average price of cending order of pri- cere title starts with the re is considering to a nister, Abhay has decore as follows: DRE Scode Quan 23 22 50	Prog Prog 100 and 300 ng type "Prog for each type (D" and qty is maintain their ecided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iv) v) 3. A th • Ni • Ni • Ni • Ti ItemNo Scode - nu Quantity • ItemNo 2005 2003 2002	Outlide Network Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display title, price in des Display title, price in des Display all the books who departmental store MyStore e data. As a database admi ame of the database - myst ame of the table - STORE he attributes of STORE are numeric e - character of size 20 Imeric - numeric Sharpener Classic Ball Pen 0.25 Get Pen Premium	Norton Schildt with price between of all the books havi- and average price for cending order of pri- cere title starts with for ere is considering to pri- ere is considering to pri- ere is considering to pri- mister, Abhay has de- ore re is considering to pri- cent as follows: DRE Scode Quan 23 22 50 21 150	Prog Prog 100 and 300 ng type "Prog for each type ice 'D" and qty is maintain their ecided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iv) v) 3. A th • Ni • Ni • Ti ItemNo - 1 ItemNo	Outlide INEtwork Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display number of books Display number of books Display title, price in des Display all the books who departmental store MyStore e data. As a database admit ame of the database - myst ame of the table - STORE ne attributes of STORE are numeric e - character of size 20 imeric numeric Sharpener Classic Ball Pen 0.25 Get Pen Premium Get Pen Classic	Norton Schildt with price between of all the books having and average price of cending order of price of the starts with th	Prog Prog 100 and 300 ng type "Prog for each type (D" and qty is maintain their cided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	
8 9 10 i) ii) iii) iv) v) 3. A th • Ni • Ni • Ni • Ni • Ti ItemNo 2005 2003 2002 2006 2001 2001	Outlide INEtwork Basic for Beginners Advanced Pascal Display title of all books Display title and author of Display title and author of Display title, price in des Display title, price in des Display all the books who departmental store MyStore e data. As a database admit ame of the database - myst ame of the table - STORE he attributes of STORE are numeric e - character of size 20 imeric - numeric Sharpener Classic Ball Pen 0.25 Get Pen Premium Get Pen Classic Eraser Small	Norton Schildt with price between of all the books having and average price of cending order of prices title starts with the cending order of prices title starts with the cending order of prices as follows: The is considering to a mister, Abhay has defore as follows: DRE Scode Quantification of Quanti	Prog Prog 100 and 300 ng type "Prog for each type ice 'D" and qty is maintain thei ecided that :	BPB McGraw g" and published of publisher s more than 3.	3 4 by BPB.	40.0 350.	

3 Insert the following data into the attributes ItemNo, ItemName and SCode respectively in the given	
table STORE.	
ItemNo = 2010, ItemName = "Note Book" and Scode = 25	
4 Abhay want to remove the table STORE from the database MyStore.	
Which command will he use from the following:	
a) DELETE FROM store:	

- b) DROP TABLE store;
- c) DROP DATABASE mystore;
- d) DELETE store FROM mystore;

5 Now Abhay wants to display the structure of the table STORE, i.e, name of the attributes and their respective data types that he has used in the table. Write the query to display the same.

4. Given below a table, write SQL query for part (i) to (v)

RELATION: BOOKHOUSE

Title	Author	Subject				
		Subject	Publisher	Qty.	Prie	ce
Data Structure	Lips chute	DS	McGraw	4	217.	00
DOS Guide	Nortron	OS	PHI	3	175.	00
Turboc C++	Robort Lafore	Prog	Galgotia	5	270.	00
Dbase Dummies	Palmer	DBMS	PustakM	7	130.	00
Mastering Windows	Cowart	OS	BPB	1	225.	00
Computer Studies	French	FND	Galgotia	2	75.0	00
COBOL	Stern	Prog	John W	4	1000	.00
Guide Network	Freed	NET	Zpress	3	200.	00
Basic for Beginners	Norton	Prog	BPB	3	40.0	00
Advanced Pascal	Schildt	Prog	McGraw	4	350.	00
	Data StructureDOS GuideTurboc C++Dbase DummiesMastering WindowsComputer StudiesCOBOLGuide NetworkBasic for BeginnersAdvanced Pascal	Data StructureLips chuteDOS GuideNortronTurboc C++Robort LaforeDbase DummiesPalmerMastering WindowsCowartComputer StudiesFrenchCOBOLSternGuide NetworkFreedBasic for BeginnersNortonAdvanced PascalSchildt	Data StructureLips cluteDSDOS GuideNortronOSTurboc C++Robort LaforeProgDbase DummiesPalmerDBMSMastering WindowsCowartOSComputer StudiesFrenchFNDCOBOLSternProgGuide NetworkFreedNETBasic for BeginnersNortonProgAdvanced PascalSchildtProg	Data StructureDiscritterDiscritterDiscritterDOS GuideNortronOSPHITurboc C++Robort LaforeProgGalgotiaDbase DummiesPalmerDBMSPustakMMastering WindowsCowartOSBPBComputer StudiesFrenchFNDGalgotiaCOBOLSternProgJohn WGuide NetworkFreedNETZpressBasic for BeginnersNortonProgBPBAdvanced PascalSchildtProgMcGraw	Data structureLips chuteDisMeenaw4DOS GuideNortronOSPHI3Turboc C++Robort LaforeProgGalgotia5Dbase DummiesPalmerDBMSPustakM7Mastering WindowsCowartOSBPB1Computer StudiesFrenchFNDGalgotia2COBOLSternProgJohn W4Guide NetworkFreedNETZpress3Basic for BeginnersNortonProgBPB3Advanced PascalSchildtProgMcGraw4	Data structureLips endreDisMeenaw4217.DOS GuideNortronOSPHI3175.Turboc C++Robort LaforeProgGalgotia5270.Dbase DummiesPalmerDBMSPustakM7130.Mastering WindowsCowartOSBPB1225.Computer StudiesFrenchFNDGalgotia275.0COBOLSternProgJohn W41000Guide NetworkFreedNETZpress3200.Basic for BeginnersNortonProgBPB340.0Advanced PascalSchildtProgMcGraw4350.

i) Display publisher wise total stock value (Qty * price)

ii) Display title of the book which is costliest.

iii) Display number of books and total price for each type of publisher

iv) Display all the books where subject starts with "D" and qty is less than 3.

v) Display all information of books whose price end's with 0.

5. Given a table Order, write the following queries using SQL.

<u>Table: Order</u>						
Orderno	Orderdate	CName	Cloc	Orders(in Rs)	Payments(in F	(s)
1	12/02/2008	Avlon	Delhi	100000	90000	
2	21/11/2008	Parason	Jaipur	230000	230000	
3	15/10/2008	Trident	Raipur	120000	100000	
4	13/1/2008	Avlon	Jaipur	240000	240000	
5	17/7/2008	Trident	Delhi	340000	310000	
7	16/6/2008	Nalco	Chennai	140000	140000	

1. List Companies listed in the table Ans select distinct cname from order.

2. Insert a column Discount_percent type int (4)

- 3. Add values under Discount_percent column such that 10% discount is given to those companies who have made full payments.
- 4. Find number of companies and average orders given to then city wise.
- 5. List all orders given between 1/1/2008 to 12/10/2008.

```
1. Radhika is writing a program to create a CSV file "books.csv" which will contain the book
       name and author name. She wants to display the details of all the books.
   (a) Name the module she should import in the program.
   (b) In which mode, she should open the file to read all the data.
   (c) Name the in-built function which is used to read the data from csv file.
   (d) Write a function to close the csv file.
   (e) If Radhika wants to add a new record in the csv file, write the statement to help her in
       opening the file.
   2. Ranjan 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 given task.
                              # Line 1
import_
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")
                                                                                                          1
addCsvFile("Frieda","myname@FRD")
                                                                                                          1
readCsvFile()
                                   #Line 5
                                                                                                          1
(a) Name the module he should import in Line 1.
(b) In which mode, Ranjan should open the file to add data into the file
                                                                                                          1
(c) Fill in the blank in Line 3 to read the data from a csv file.
                                                                                                          1
(d) Fill in the blank in Line 4 to close the file.
(e) Write the output he will obtain while executing Line 5.
   3. Sanyam Arora of class 12 is writing a program to create a CSV file "contact.csv" which will
       contain contact names and contact numbers of his friends and relatives. He has written the
       following code. As a programmer, help him to successfully execute the given task.
          # Line 1
import
# to write / add data into the CSV file
def addcontact_csvFile(ContactName,ContactNumber):
         f=open('contact.csv','____',newline='') # Line 2
         newFileWriter = csv.writer(f)
         newFileWriter.____([ContactName, ContactNumber]) # Line 3
f.close∩
# to read data from CSV file
def readcontact csvFile():
           with open('contact.csv','r') as newFile:
            newFileReader = csv.____(newFile) # Line 4
            for row in newFileReader:
                   print (row[0],row[1])
addcontact_csvFile ("Arnav", "9897967890")
addcontact_csvFile ("Aryan","99078678901")
addcontact_csvFile ("Chirag","8806789056")
readcontact_csvFile () #Line 5
(a) Name the module he should import in Line 1.
(b) Fill in the blank in Line 2 with the mode, Sanyam should open the file in, to add data into the file.
(c) Fill in the blank in Line 3 to write the data to the csv file.
```

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	(d) Fill in the blank in Line 4 to read the data from the csv file.(e) Write the output he will obtain while executing Line 5.	
	4. Manoj Kumar of Admin of XYZ school is writing a program to create a CSV file "info.csv" which will contain names ,Class and section and fees of all students. He has written the following code. As a programmer, help him to successfully execute the given task. import # Line 1 # to write / add data into the CSV file def addcontact_csvFile(Name,Class_and_section,Fee): f=open('infp.csv',''newline='') # Line 2 newFileWriter = csv.writer(f) newFileWriter([Name,Class_and_section,Fee]) # Line 3 f.close() # to read data from CSV file def readcontact_csvFile(): with open('info.csv','r') as newFile: newFileReader = csv(newFile) # Line 4 for row in newFileReader: print (row[0],row[1],row[2]) addcontact_csvFile ("Arnav","10 A","2350")	
	addcontact_csvFile ("Aryan","10 B","2400")	
	addcontact_csvFile ("Chirag","10 C","2430") readcontact_csvFile () #Line 5	
	 (a) Name the module he should import in Line 1. (b) Fill in the blank in Line 2 with the mode, Sanyam should open the file in, to add data into the file. (c) Fill in the blank in Line 3 to write the data to the csv file. (d) Fill in the blank in Line 4 to read the data from the csv file. (e) Write the output he will obtain while executing Line 5. 	
	 Mr. Shiv Sharma of Math's teachers of Silver Shine school he want to store data of his maths students of commerce in "CS_12th_Com.csv" He what to store Name,PT1, PT2, PT3, HY & Total. As a programmer, help him to successfully execute the given task. (a)Name the module she should import in the program. (b)In which mode, she should open the file to read all the data. (c)Name the in-built function which is used to read the data from csv file. (d)Write a function to close the csv file. (e) If Mr. Shiv Sharma wants to add a new record in the csv file, write the statement to help her in opening the file. 	
	PART-B	
	Section-I	
24	 Evaluate the following expressions: a) 47 // 5 + 10 **2 - 25+12 b) 34 > 56 or 90 > 60 and not 21 > 10 Evaluate the following expressions: a) 9 * 5 + 3**3 // 2 - 8 b) 10 < 15 and not 17 > 11 or 10 > 2 	2
	3. Evaluate the following expressions: a) $47 \% 5 - 10 *2 - 24//12$	

	b) 3 > 6 or 9 < 60 and not 1 > 10	
	4. Evaluate the following expressions:	
	a) 47 / 5 + 10 % 2 - 25%12	
	b) 34 < 56 or 90 < 60 and not 21 < 10	
	5. Evaluate the following expressions:	
	a) 47 // 5 + 10 // 2 – 25 //12	
	b) 47 % 5 - 10 *2 - 24//12	
	1. Differentiate between hacker and cracker.	
	2. Differentiate between hub and switch.	
	3. Differentiate between Viruses and Trojan horses in context of networking and data	
	communication threats.	
05	4. Differentiate between 3G and 4G Mobile Telecommunication Technologies.	
25	5. Write two advantages and two disadvantages for STAR topology.	2
	6. What is the difference between Message Switching technique and Packet Switching technique?	
	7. Define the term Bandwidth. Give unit of Bandwidth.	
	8. What do you understand by a backbone network?	
	9. Differentiate between BUS and STAR topology of networks.	
	10. Differentiate between VB Script and ASP	
	a) Expand the following terms: a) HITP b. ISP c. ARPANET d. TCP/IP	
26	b) Expand the following terms: (1) VOIP (11)email (111)FTP (1V) CDMA	2
26	c) Expand the following terminologies : (1) ICP/IP (11) XML (111) PHP (1V) WLL	Z
	a) Expand the following terminologies : (1)GSM (11) CDMA (11)DHTML (17) GSM	
	e) Expand the following terminologies: (I) www (II) HITPS (III) FTP (IV) UKL	
	1. Differentiate between local and global variable with suitable example.	
	2. Differentiate between mutable and immutable data types with suitable example.	
	3. Differenciate between groups by and order by with suitable example.	
	4. Difference between PAN and LAN.	
27	5. Differentiate the following : TDMA and CDMA	2
27	6. Differentiate the following: FUSS and USS.	Z
	7. Differentiate between count () in python and count () in MySQL with suitable example.	
	8. Differentiate between insert () and extend () function with suitable example.	
	9. Differentiate between Twisted pair and coastal cable function with suitable example.	
	10. What is protocol? which protocol is used to search information from internet using an	
	1 Dowrite the following code in Duthen after removing all suntay error(s) Underline each	
	1. Rewrite the following code in Fython after removing an syntax error(s). Onder the each correction done in the code	
	Num=50	
	while Num > -10	
	if NIIM - 30	
	BDEAK	
	Flif Num >30	
	nrint(Num)	
	risc.	
	2 Rewrite the following code in Buthon after removing all syntax error(s) Underline each	
28	2. Rewrite the following code in Fython after removing an syntax error(s). Onder fine cach	2
20	Num=50	2
	While Num == $"10"$.	
	if NIIM = 30	
	BRFAK	
	elseif Num >30:	
	nrint(Num)	
	else.	
	nrint(Num //10)	
	3 Rewrite the following code in Puthon after removing all suntay error(s). Underline each	
	correction done in the code	
	Def chksum()	
	ber ensuing.	l

```
x=int(input("Enter a number"))
          if (X\%2 == 0):
            for i in ranges(2^*x):
               printf(i)
           else:
               printf("#")
       chkSum()
          4. Rewrite the following code in Python after removing all syntax error(s). Underline each
              correction done in the code.
       def chkSum():
          x=INT(input("Enter a number"))
          if (x\%2 == 0):
            for i in Range(2*x):
               print( "I" )
           else:
               print(' #")
       Chksum()
          5. Rewrite the following code in Python after removing all syntax error(s). Underline each
              correction done in the code.
       def chksum():
          x=INT(input("Enter a number"))
          if (f\%2 == 0):
            FOR i in range(2*X):
               printf(i)
           else:
               printf( "#' )
       chkSUM()
          1. What are the possible output(s) of the following code? Also specify the maximum and
              minimum values that can be assigned to variable PICKER.
       import random
       PICK = random.randint(0,3)
       CITY= ["DELHI", "MUMBAI", "CHENNAI", "KOLKATA"]
       for x in CITY:
           for y in range(1, PICK):
                 print (x, end = "")
           print()
          (i)
                  DELHIDELHI
                                             (ii) DELHI
                 MUMBAIMUMBAI
                                                 MUMBAI
                 CHENNAICHENNAI
                                                  CHENNAI
                 KOLKATA KOLKATA
                                                   KOLKATA
29
                                                                                                             2
         (iii)
                  DELHI
                                              (iv) DELHI
                 DELHIMUMBAI
                                                 MUMBAIMUMBAI
                 DELHIMUMBAICHENNAI
                                                  KOLKATAKOLKATAKOLKATA
          2. Observe the following program and answer the questions that follow:
       import random
       X=3
       N=random.randint(1,X)
       for i in range(N):
         print(i, '#', i+1)
       (a) What is the minimum and maximum number of times the loop will execute?
       (b) Find out, which line of output(s) out of (i) to (iv) will not be expected from the program?
       i. 0#1
       ii. 1#2
```

	iii. 2#3	
	iv. 3#4	
	3. Observe the following program and answer the questions that follow: city= ["DEL", "CHN", "KOL", "BOM", "BNG"]	
	for Lin range(1.4):	
	Fly = random.randrange(0.2) + 1:	
	print(city[Fly].end=":")	
	(a) What is the minimum and maximum number of times the loop will execute?	
	(b) Find out, which line of output(s) out of (i) to (iv) will not be expected from the program?	
	#Output Options:	
	i. DEL: CHN : KOL : ii. CHN : KOL : CHN :	
	iii. KOL : $BOM : BNG : iv. KOL : CHN : KOL :$	
	 4. Observe the following program and answer the questions that follow: Area=["NORTH","SOUTH","EAST","WEST"] for I in range(3): ToGo=random.randrange(0,2) + 1 print(Area[ToGo],end=":") (a) What is the minimum and maximum number of times the loop will execute? 	
	(a) what is the minimum and maximum number of times the loop will execute?	
	(b) Find out, which line of output(s) out of (f) to (fv) will not be expected from the program?	
	i SOUTH · FAST · SOUTH · ji NORTH · SOUTH · FAST ·	
	iii. SOUTH : EAST : WEST : iv. SOUTH : EAST : EAST :	
	5. Observe the following program and answer the questions that follow:	
	low=25	
	point =5	
	for i in range (1,5):	
	Number=low + random.randrange(0,point);	
	print(Number , end="")	
	point-=1;	
	(a) What is the minimum and maximum number of times the loop will execute?	
	(b) Find out, which line of output(s) out of (i) to (iv) will not be expected from the program?	
	#Output Options:	
	i. 29: 26:25 :28 : ii. 24: 28:25 :26 :	
	iii. 29: 26:24 :28 : iv. 29: 26:25 :26 :	
	1. Differentiate between Primary Key and a Candidate Key with suitable example.	
	2. Differentiate between Like "Char/string%" and Like "%Char/string%" with suitable example.	
30	3. Differentiate between Delete and Truncate command with suitable example.	2
	4. Differentiate between Alter and Update with suitable example.	
	5. Differentiate between Drop and Delete command with suitable example.	
	1. What is the use of dump () and load () functions with suitable example?	
	2. What is the use of reader () and writer () functions with suitable example?	
31	3. What is the use of read () and readline () functions with suitable example?	2
	4. What is the use of reader () and DictReader () functions with suitable example?	
	5. What is the use of index () and find () functions with suitable example?	
	1. What is use of 'LIKE' keyword in SQL? Explain with suitable example.	
22	2. What is use of 'heaving' keyword in SQL? Explain with suitable example.	2
32	3. what is use of 'union' keyword in SQL? Explain with suitable example.	2
	4. what is use of values keyword in SQL? Explain with suitable example.	
	5. What is use of between Keyword in SQL? Explain with suitable example.	
	1. Find and write the output of the following Python code:	
33.		2
	K=IeII(S)	
	111=	

```
for i in range(0,k):
   if(s[i].isupper()):
      m=m+s[i].lower()
    elif(s[i].isalpha()):
      m=m+s[i].upper()
    else:
      m=m+'##'
  print(m)
fun('Charles@Babbage')
2. Find and write the output of the following Python code:
    s="Cbse Exam 2020-2021"
    print(s)
    r=""
    for i in s:
      if i.isupper()== False:
         r+=i.lower()
       elif i.islower() == False:
         r+=i.upper()
       else:
         r=r+i
    print(r)
3. Find and write the output of the following Python code:
    s="Cbse Exam 2020-2021"
    print(s)
    r=""
    for i in s:
      if i.isupper():
         r+=i.lower()
       elif i.islower():
         r+=i.upper()
       elif i.isdigit():
         r + = str(int(i) + 1)
      else:
         r=r+i
    print(r)
4. Find and write the output of the following Python code:
 T= "Mind@work!"
 R=""
 l=len(T)
 print("Orignal : ",T)
 for i in range(l):
   if T[i].isalpha()==False:
      R+='*'
   elif T[i].isupper()==True:
      R+=chr(ord(T[i])+1)
   else:
      R + = T[i+1]
 print("Final : ",R)
5. Find and write the output of the following Python code:
 poet= "SakESpHerE";
 l=len(poet)
 r=""
 print("Orignal : ",poet)
 for i in range(l):
```

	if noet[i] islower():	
	r+=noot[i 1]	
	eni poetiri.supper():	
	If $poet[1] == S$:	
	r+='X';	
	elif(poet[i]=='E'):	
	r+=poet[i-1].upper()	
	else:	
	r+=chr(ord(poet[i])-1)	
	nrint("Final · "r)	
	SECTION II	
	SECTION-II	
	1 Write a function Swan (num, n) in Brthan, which accorts a list num of numbers and n is the	
	1. Write a function Swap (num, n) in Python, which accepts a list num of numbers and n is the	
	number of elements. The function will interchange every alternate value.	
	E.g	
	If the list num contain: [11, 21, 31, 41, 51, 61]	
	Output: [21, 11, 41, 31, 61, 51]	
	2. WAP to input a Message and count the number of words beginning with 'A' or 'a'.	
	Εσ	
	If the String is "We are from Silver Shine School and I am in 12th Class."	
	Output 2	
	output, 5	
	2 MAD to impute Manager and equation differentiation of equital and equall latters in each	
	3. WAP to input a Message and count and display the number of capital and small letters in each	
	word.	
	E.g	
	If the String is : "SiLver ShinE ScHOOl"	
	Output,	
34	Words Small Cap	3
	Silver 4 1	_
	ChinE 2 2	
	4 WAP to replace all prime numbers by 0 in list items	
	$F \sigma$	
	If the list num contain: $[2476910141513]$	
	$\begin{bmatrix} 11 \text{ the list num contain.} & [2,4,7,0,7,10,14,15,15] \\ 0 \text{ otherwise} & \begin{bmatrix} 2,4,0,0,0,10,14,15,0] \\ 0 \text{ the list num contain.} \end{bmatrix}$	
	Output: [2,4,0,0,9,10,14,15,0]	
	F WAD to display high act and lawast itom (integer) from list	
	5. WAP to display nignest and lowest item (integer) from list.	
	L.g	
	If the list num contain: $[2,4,7,6,9,10,14,15,13]$	
	Output: H: 15, L: 2	
	1. Write a function word4() in Python that displays 4 letter words present in a text file	
	'myfile.txt'.	
	If the 'myfile.txt' contents are as: "We are here to learn python. Python has so many features which	
	make it more comfortable interface.	
	Output:	
	here	
25	many	2
55	mairy	5
	more	
	2. Write a function word3() in Python that displays 3 letter words present in a text file	
	'myfile.txt'.	
	If the 'myfile.txt' contents are as:	

	We are h	ere to learı	n python. Python	has so many fea	atures whi	ch make it mo	re comfortable i	nterface.	
	output: are								
	has								
	3. V	Vrite a fund	ction word5() in F	Python that disp	olays 5 lette	er words pres	ent in a text file		
	'I If tho 'mi	nyfile.txť. vfilo tvť cov	atonte aro aci						
	We are here to learn python. Python has so many features which make it more comfortable interface.								
	Output:								
	learn								
	which								
	4. V 'r	Vrite a func nyfile.txť.	ction word2() in H	Python that disp	olays 2 lette	er words pres	ent in a text file		
	If the 'my	vfile.txt' con	ntents are as:						
	We are h	ere to lear	n python. Python	has so many fea	atures whi	ch make it mo	re comfortable i	nterface.	
	Output:								
	so								
	it								
	5. V	Vrite a func	ction word1() in F	Python that disp	olays 1 lette	er words pres	ent in a text file		
	If the 'my	vfile.txť com	ntents are as:						
	We are h	ere to leari	n python. Python	has so many fea	atures whi	ch make it mo	re comfortable i	nterface.	
	Output:	None							
					•				
	1. V	Vrite a fund	tion count∩ in P	vthon. which sh	• ould count	number of 'T	his' in a given te	ext file	
		Sample.txť.		,					
	2. V 'S	Vrite a func Sample.txt'.	ction count() in P	ython, which sh	ould count	number of 'is	' in a given text	file	
	3. V 'S	Vrite a func Sample.txt'.	ction count() in P	ython, which sh	ould count	number of 'w	e' in a given tex	t file	
	4. V	Vrite a func	ction count() in Py	ython, which sh	ould count	number of 'ar	re' in a given tex	t file	
	5. V	Vrite a func	tion count() in P	vthon, which sh	ould count	number of 'a'	words in a give	n text file	
	÷۲. (۲	Sample.txť.			oura courr				
	1. Wi	rite the out	puts of the SQL q	ueries (i) to (iii) based on	the following			
				Ta	able 'CABH	UB':		1	
		VCODE	VNAME	MAKE	COLOR	CAPACITY	CHARGES		
		100	INNOVA	ΤΟΥΟΤΑ	WHITE	7	15		
		102	SX4	SUZUKI	BLUE	4	14		
		104	C CLASS	MERCEDES	RED	4	35		
26		105	A-STAR	SUZUKI	WHITE	3	14		2
50	(a) T	108	INDIGO	TATA	SILVER	3	12	-	3
	(a) 1 (b) T	o display t	ine fiames of an un	ake and canaci	ty of vehicles.	les in ascendir	ng order of their	secting	
		anacity		lake and capaci	ty of venies	ies in ascentin		scatting	
	(c) T	o display t	he highest charge	es at which a vel	hicle can b	e hired from C	ABHUB.		
			0 0 0						
	2. Wi	rite the out	puts of the SQL q	ueries (i) to (iii) based on	the following			
		Tabl	e : Employee						

Eid	Name	Deptid	Qualification	Sex
1	Deepali Gupta	101	MCA	F
2	Rajat Tyagi	101	BCA	М
3	Hari Mohan	102	B.A	М
4	Harry	102	M.A	М
5	Sumit Mittal	103	B.Tech	М
6	Jyoti	101	M.Tech	F

(i) To display the frequency of employees department wise.

(ii) To list the names of those employees only whose name starts with 'H'

(iii) To display all Female employee.

3. Write the outputs of the SQL queries (i) to (iii) based on the following Table 'CABHUB':

	Table Chilliob.				
VCODE	VNAME	MAKE	COLOR	CAPACITY	CHARGES
100	INNOVA	ТОҮОТА	WHITE	7	15
102	SX4	SUZUKI	BLUE	4	14
104	C CLASS	MERCEDES	RED	4	35
105	A-STAR	SUZUKI	WHITE	3	14
108	INDIGO	ТАТА	SILVER	3	12

(a) To display the names of all vehicles their capacity more then 3

(b) To display name of vehicle, make and capacity of vehicles in descending order of their seating capacity.

(c) To display the lowest charges at which a vehicle can be hired from CABHUB.

4. Write the outputs of the SQL queries (i) to (iii) based on the following

		18	able CABH	UB:	
VCODE	VNAME	MAKE	COLOR	CAPACITY	CHARGES
100	INNOVA	ΤΟΥΟΤΑ	WHITE	7	15
102	SX4	SUZUKI	BLUE	4	14
104	C CLASS	MERCEDES	RED	4	35
105	A-STAR	SUZUKI	WHITE	3	14
108	INDIGO	ТАТА	SILVER	3	12

(a) To display the names of all vehicles their capacity less then 3

(b) To display name of vehicle, make and capacity of vehicles in descending order of their charges.

(c) To display the all information from table CABHUB by frequency of CAPACITY.

5. Write the outputs of the SQL queries (i) to (iii) based on the following

Table : Employee

Eid	Name	Deptid	Qualification	Sex
1	Deepali Gupta	101	MCA	F
2	Rajat Tyagi	101	BCA	М
3	Hari Mohan	102	B.A	М
4	Harry	102	M.A	М
5	Sumit Mittal	103	B.Tech	М
6	Jyoti	101	M.Tech	F

i. To display the frequency of employees sex wise.

ii. To list the names of those employees only whose name ends with 'a'

iii. To display all male employee whose qualifications is ended by 'A'.

7 Write value	ay the stack. e a function in Python PO	() P() to remove the el	DR ement from the stack a	nd also display the deleted	
		SECT	ION-III		
1	Sanskar University of Himachal Pradesh for planning to have netw after going through th below:	Himachal Pradesh is operating their day- ork connectivity bet e building positions	setting up a secured n to-day office & web bas ween four buildings. A in the campus & other	etwork for its campus at sed activities. They are nswer the question (i) to (v) details which are given	
	Admin	Main Building			
	Finance		Academic		
The	distances between various b	Puildings of university a	are given as:-	1	
	Bunuing 1	Admin	50		
	Main	Einanaa	100		
	Main	Academia	70		
	Admin	Finance	50		
	Finance	Academic	70		
	Admin	Academic	60		
3					
Num	ber of computers:-	No. of			
Mai	n na	150	lomputers		
Adn	nin	75			
Fina	nce	50			
Aca	lemic	60			
Asar	network expert, you are n rsity administration: -	required to give best	possible solutions for	the given queries of the	

(d) Suggest the technology out of the following for setting-up very fast Internet connectivity among buildings of the university

1. Optical Fiber 2. Coaxial cable 3. Ethernet Cable

(e) The University is planning to connect its admission office in Haryana, which is more than 1000 KM from University. Which type of Network out of LAN, MAN or WAN will be formed? Justify your answer.

2. Tech Up Corporation (TUC) is a professional consultancy company. The company is planning to set-up their new offices in India with its hub at Hyderabad. As a network adviser, you have to understand their requirement and suggest to them the best available solutions. Their queries are mentioned as (i) and (iv) below. You have to understand their requirement and suggest to them the best available solutions. Their queries are mentioned as (i) and (v) below.



Block to block distances (in m.)

Block (From)	Block (To)	Distance
Human Resource	Conference	60
Human Resource	Finance	120
Conference	Finance	80

Expected number of computers to be installed in each block

Block	Computers
Human Resource	125
Finance	25
Conference	60

- 1. What will the most appropriate block, where TUC should plan to install their server?
- 2. Draw a block to block cable layout to connect all the buildings in the most appropriate manner for efficient communication.
- 3. What will be the best possible connectivity out of the following, you will suggest to connect the new set-up of offices in Bangalore with its London based office?
 - Infrared
 - Satellite Link
 - Ethernet Cable
- 4. Where in this network we can use repeter
- 5. Which of the following devices will be suggested by you to connect each computer in each of the buildings?
 - Gateway
 - Sqwitch
 - Modem
- 3. G.R.K International Inc. is planning to connect its Bengaluru Office Setup with its Head Office in Delhi. The Bengaluru Office G.R.K. International Inc. is spread across an area of approx. 1 square kilometres consisting of 3 blocks. Human Resources, Academics and Administration. You as network expert have to suggest answers to the four queries (i) to (v) raised by them.



Physical Locations of the buildings of EPG

Physical Location	is of the buildi	ngs of	EPG
Faculty Studio Building	Finance Building	Admin Buil	istrative ding
Building to build	ing distance (n m.)	Distance
From	10		Distance
Administrative	Finance Bui	lding	60
bunuing			
Administrative	Faculty Stu	dio	120
Administrative Building	Faculty Stue Building	dio	120
Administrative Building Finance Building	Faculty Stud Building Faculty Stud	dio dio	120 70
Administrative Building Finance Building	Faculty Stud Building Faculty Stud Building	oit dio	120 70
Administrative Building Finance Building Expected co installed in	Faculty Stud Building Faculty Stud Building omputers to be each building	dio dio e	120 70
Administrative Building Finance Building Expected co installed in Building	Faculty Stud Building Faculty Stud Building omputers to be each building	dio dio e compute	120 70 ers
Administrative Building Finance Building Expected co installed in Building Administrative	Faculty Stud Building Faculty Stud Building omputers to be each building Is C Building	dio dio e compute 20	120 70 ers
Administrative Building Finance Building Expected co installed in Building Administrative Finance Buildi	Faculty Stud Building Faculty Stud Building omputers to be each building Is C Building ng	dio dio e compute 20 40	120 70 ers

- 1. Suggest the most appropriate building, where EPG should plan to install the server.
- 2. Suggest the most appropriate building to building cable layout to connect all three buildings for efficient communication.
- 3. Which type of network out of the following is formed by connection the computers of these three buildings?
 - (a) LAN
 - (b) MAN
 - (c) WAN
- 4. Where in this network we can use Switch & Hub
- 5. Which wireless channel out of the following should be opted by EPG to connect to students of all over the world?
 - (a) Infrared
 - (b) Microwave
 - (c) Satellite

5. Granuda consultants are setting up a secured network for their office campus at Faridabad for their day-to-day office and Web based activities. They are planning to have connectivity between 3 buildings and the head office situated in Kolkata. Answer the questions (i) to (v) after going through the building positions in the campus and other details, which are given below:

Building GANGA Distance between various buildings	
Building RAVI to Building JAMUNA 120 m	
Building RAVI to Building GANGA 50 m	
Building GANGA to Building 65 m	
JAMUNA	
Faridabad Campus to Head Office 1460 km	
Number of computers	
Building RAVI 25	
Building JAMUNA 150	
Building GANGA 51	
Head Office 10	
 6. Suggest the most suitable place (i.e. block) to house the server of this organisation. Also, give a reason to justify your suggested location. 7. Suggest a cable layout of connections between the building inside the campus. 8. Suggest the placement of the following devices with justification : , (a) Switch (b) Repeater 9. Use of Gateway in network. 10. The organization is planning to provide a high speed link with its head office situated in the Kolkata using a wired connection. Which of the following cable w be most suitable for this job? (a) Optical fibre (b) Coaxial cable (c) Ethernet cab 1. Consider the following tables STORE and SUPPLIERS and answer the following parts:	will ble ts of
the questions:	
Table: Store	
ITEMN	
O ITEM SCODE QTY RATE LASTBUY	
2005 Sharpener Classic 23 60 8 31-6-2009	
³⁹ 2003 Ball Pen 0.25 22 50 25 1/2/2010	5
2002 Gel pen premium 21 150 12 2010	
2002 Gel Pen Classic 21 250 20 11/3/2009	
2000 Gerren Gassie 21 250 20 11/3/2009 2001 Fraser Small 22 220 6 10-1-2009	
2004 Eraser Big 22 110 8 2/12/2009	
2009 Ball Pen 0.5 21 180 18 3/11/2009	

Table: Suppliers

SCODE	SNAME
	Premium
21	Stationers
23	Soft Plastics
22	Tetra Supply

a. To display details of all the items in the Store table in ascending order of LastBuy.

b. To display itemno ItemName of those items from Store Table whose rate is more than 15 rupees.

c. To display the details of those items whose Suppliers code(Scode) is 22 or Quantity in Store(Qty) is more than 110 from the table Store.

d. To display minimum rate of Items for each Supplier individually as per Scode from the table Store.

e. To increase the Rate of all the items by Rs. 10

2. Write SQL commands for the queries (1) to (5):

	COMPANY						
CID	NAME	CITY	PRODUCTNAME				
111	SONY	DELHI	TV				
222	NOKIA	MUMBAI	MOBILE				
333	ONIDA	DELHI	TV				
444	SONY	MUMBAI	MOBILE				
555	BLACKBERRY	MADRAS	MOBILE				
666	DELL	DELHI	LAPTOP				

CUSTOMER

CUSTID	NAME	PRICE	QTY	CID
101	ROHAN SHARMA	70,000	20	222
102	DEEPAK KUMAR	50,000	10	666
103	MOHAN KUMAR	30,000	5	111
104	SAHIL BANSAL	35,000	3	333
105	NEHA SONI	25,000	7	444
106	SONAL AGGARWAL	20,000	5	333
107	ARUN SINGH	50,000	15	666

1. To display those company name which are having prize less than 30000.

2. To display the name of the companies in reverse alphabetical order.

3. To increase the prize by 1000 for those customer whose name starts with "S?

4. To add one more column total price with decimal] 10,2) to the table customer

5. To display those company name which are having price started by `2`

3. Consider the following tables SCHOOL and ADMIN and answer this question :

CODE	TEACHER NAME	SUBJECT	DOJ	PERIODS +	EXPERIENCE
1001	Ravi Shankar	English	12/3/2000	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 : SCHOOL

Table: Admin

Code	Gender	Designation
1001	Male	Vice Principla
1009	Female	Co-ordinator
1203	Female	Co-ordinator
1045	Male	HOD
1123	Male	Senior Teacher
1167	Male	Senior Teacher
1215	Male	HOD

Write SQL statements for the following:

- 1. To display TEACHERNAME, PERIODS of all teachers whose periods are more than 25.
- 2. To display all the information from the table SCHOOL in descending order of experience.
- 3. To display DESIGNATION without duplicate entries from the table ADMIN.
- 4. To display TEACHERNAME, CODE and corresponding DESIGNATION from tables SCHOOL and ADMIN of Male teachers.
- 5. To display all the information from the table SCHOOL and ADMIN have same CODE.

4. Write SQL commands for the queries (1) to (5).

Watches				
Watchid	Watch_Name	Price	Туре	Qty_Store
W001	High Time	10000	Unisex	100
W002	Life Time	15000	Ladies	150
W003	Wave	20000	Gents	200
W004	High Fashion	7000	Unisex	250
W004	Golden Time	25000	Gents	100

Sale

Watchid	Qty_Sold	Quarter
W001	10	1
W003	5	1
W002	20	2
W003	10	2
W001	15	3
W002	20	3
W005	10	3
W003	15	4

- 1. TO DISPLAY ALL THE DETAILS OF THOSE WATCHES WHOSE NAME ENDS WITH 'TIME'
- 2. TO DISPLAY WATCH'S NAME AND PRICE OF THOSE WATCHES WHICH HAVE PRICE RANGE IN BE-TWEEN 5000-15000.
- 3. TO DISPLAY TOTAL QUANTITY IN STORE OF UNISEX TYPE WATCHES.
- 4. TO DISPLAY WATCH NAME AND THEIR QUANTITY SOLD IN FIRST QUARTER;
- 5. TO DISPLAY MAX and MIN from table WATCHES.

5. Answer the questions (1) to (5) on the basis of the following tables SHOP and ACCESSORIES.

Table: SHOP

Id	SName	Area
S001	ABC computronics	СР
S002	All Infotech Media	GK II
S003	Tech Shop	СР
S004	Geeks Tecno Soft	Nehru Place
S005	Hitech Tech Store	Nehru Place

Table: ACCESSORIES

No	Name	Price	Id
A01	Mother Board	12000	S01
A02	Hard Disk	5000	S01
A03	Keyboard	500	S02
A04	Mouse	300	S01
A05	Mother Board	13000	S02
A06	Keyboard	400	S03
A07	LCD	6000	S04
T08	LCD	5500	S05
T09	Mouse	350	S05
T10	Hard Disk	4500	S03

Write the SQL queries:

- 1. To display Name and Price of all the Accessories in ascending order of their Price.
- 2. To display Id and SName of all Shop located in Nehru Place.
- 3. To display Minimum and Maximum Price of each Name of Accessories.
- 4. To display Name, Price of all Accessories and their respective SName where they are available.
- 5. To display Name and Price of all the Accessories where price between 1000 to 5000.

Any 2 or $\overline{3}$

40

- 1. Write a program to read entire data from the file "data.txt" and write only those lines to file "dest.txt" which starts from word "The".
- 2. Write a python program to create a text file "employee.txt" that stores the records of employees and display them one by one.
- 3. Write a python program read records from text file "employee.txt" to Display the records of all those employees who are getting salaries between 30000 and 50000.

5

- 4. Write a python program to insert/append a new record in a binary file –"student.dat". The record can have Roll_no, Name and Fees.
- 5. Write a Function to count the number of words in a text file 'DATA.TXT' which is started/ended with 'A', 't', 'T', 'E', 'I', 'i'.

6. Write	a Function to count the number of lines in a text file 'DATA.TXT' which is started/ended	
with A	A, L, I, E, I, I.	
7. Write	a Function to count the number of words in a text file 'DATA.TXT' which is	
startir	ng/ended with an word 'The', 'the', 'my', 'he', 'they'.	
3. Write	a Function to read data from a text file DATA.TXT, and display those words, which are	
less th	nan 4 characters.	
9. Write	a Function to read data from a text file DATA.TXT, and display each words with number	
of vow	vels and consonants.	
0. Write	a program to read data from "data.txt" and write those words are start with vowel from	
word\	V.txt	
1. Write	a program to Reading data from MyCSV.csv Files as Dictionary.	
2 Write	a program to Reading data from binary file Files	