

<b>SET</b>	<b>1</b>
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**INDIAN SCHOOL MUSCAT**  
**FIRST PRE-BOARD EXAMINATION JANUARY 2023**  
**COMPUTER SCIENCE (083)**

CLASS:XII

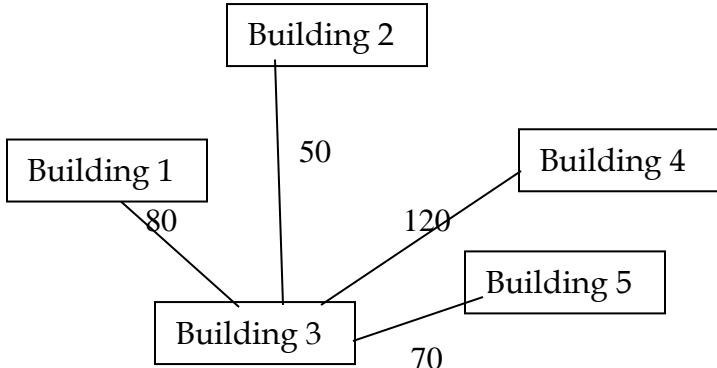
Max.Marks: 70

MARKING SCHEME			
SET	QN.NO	VALUE POINTS	MARKS SPLIT UP
<b>A</b>		<b>SECTION A</b>	
	1	No . A mutable data type cannot be key of a dictionary.	1
	2	ii) Total    iv)_Data	1
	3	d) 2	1
	4	a) URL	1
	5	(b) index()	1
	6	(a) D:S:P:	1
	7	(b)    or    (c)                  DML	1
	8	(b) Foreign Key	1
	9	(b) Tuple	1
	10	c. Delete from student where FirstName="Pawan";	1
	11	24	1
	12	(c) 4	1
	13	(c) print(T[1:8:2])	1
	14	(b) ALTER	1
	15	(b) Count (*)	1

	16	(b) tell()	1
	17	(d) A is false but R is True	1
	18	(c) A is True but R is False	1
		<b>SECTION B</b>	
	19	<p>def checkval():</p> <p>    x = <u>int</u>(input("Enter a number"))</p> <p>    if x % <u>2</u> == 0:</p> <p>        print(x, "is even")</p> <p>    <u>elif</u> x &lt; 0:</p> <p>        print(x, "should be positive")</p> <p>    else:</p> <p>        print(x, "is odd")</p> <p>(½ Mark for each correct correction made and underlined.)</p>	2
	20	<p>Definition - protocol (1 Mark)</p> <p>Two Examples ((½ Mark for each)</p> <p style="text-align: center;"><b>OR</b></p> <p>Any two advantage of star tiopology . (1 Mark each)</p>	2
	21	<p>(a) Output:</p> <p>    @22niaiaEEB@ (1 Mark)</p> <p>(b) Output:</p> <p>    dict_items([('name', 'Varun'), ('age', 27), ('address', 'Chennai')]) (1 Mark)</p>	2
	22	<p>Degree of relation –definition (1 Mark)</p> <p>Cartesian product- definition (1 Mark)</p>	2
	23	<p>(a) 10. (1 Mark)</p> <p>(b) List of tuples (1 Mark)</p>	2
	24	<p>a) i)XML - Extensible Markup Language</p> <p>    ii)SMTP – Simple Mail Transfer Protocol</p> <p style="text-align: right;">((½ Mark for each)</p> <p>b) Function of a bridge(1 Mark)</p>	2
	25	<p>Output :</p> <p>Error in statements</p> <p>    newstr += characterreturn</p> <p>    newstr</p> <p>    or</p> <p>if considered</p> <p>    newstr += character</p>	2

		<p>return newstr</p> <p>H*ll* h*w *r* y** (2 Marks)</p> <p style="text-align: center;"><b>OR</b></p> <p>Output:  Error (random.randrange() is to be used) (2 Marks)  If corrected,  Output option is (i)</p>	
		<b>SECTION C</b>	
	26	<p>(a) tuple- a row in a relation  (b) natural join –joining two tables based on common column. Common column appear only once in the output. (1 Mark)</p> <p>(b) Output:</p> <p>(i)    max(salary)    min(salary)    ( ½ Mark)  -----  200000                65000</p> <p>(ii)   Name            ,            JobTitle                Sales ( ½ Mark)  -----  Sumit Sinha    Vice President    110000  Vijay SinghTomar President        130000  Mohit Kumar    Vice President    125000</p> <p>(iii)   JobId            count(*) ( ½ Mark)  -----  102                2  101                1  103                2</p> <p>(iv)   JobId            JobTitle                Salary ( ½ Mark)  -----  103    Administrator Assistant    80000  104    Accounting Manager        70000</p>	3
	27	<p>(½ Mark for correctly opening and closing the file  2 Marks for correct logic  ½ Mark for displaying the correct output)</p> <p style="text-align: center;"><b>OR</b></p> <p>(½ Mark for correctly opening and closing the file  2 Marks for correct logic  ½ Mark for displaying the correct output)</p>	3
	28	<p>i)SELECT * FROM RECIPIENT ORDER BY RECNAME;  ii) SELECT COUNT(*),RECCITY FROM RECIPIENT GROUP BY RECIPIENT;  iii)SELECT * FROM SENDER WHERE SENDERCITY='MUMBAI';  (1 Mark for each query)</p>	3

	29	(½ mark for correct function definition 2 Marks for correct logic ½ mark for displaying the correct output)	3
	30	<pre># (first option) def PUSH(Fruitbasket):     STK=[]     for I in Fruitbasket:         if Fruitbasket[Quantity]&gt;100:             STK.append(I)</pre> <p style="text-align: right;">(1½ Marks for PUSH)</p> <pre>def POP(STK):     if len(STK)==0:         print('Stack empty-underflow')     else:         x=STK.pop()         print('Element popped is ',x)</pre> <p style="text-align: right;">(1½ Marks for POP)</p> <pre># (second option) def STACKPUSH(Student):     STK=[]     for I in Student:         if Student[I][0]=='A':             STK.append(Student[I])</pre> <p style="text-align: right;">(1½ Marks for PUSH)</p> <pre>def POP(STACK):     if len(STACK)==0:         print('Stack empty-underflow')     else:         x=STACK.pop()         print('Element popped is ',x)</pre>	3
		<b>SECTION D</b>	
	31	<p>(i) Layout 1 (Bus Topology)</p> <p>5-&gt;1-&gt;2-&gt;3-&gt;4</p>	5

		<p>Total cable length = 255 m may be considered as cable length is short.</p> <p>(ii) Layout 2 (Star Topology)</p> <div><pre>graph TD     B1[Building 1] --- 80  B3[Building 3]     B2[Building 2] --- 50  B3     B3 --- 120  B4[Building 4]     B3 --- 70  B5[Building 5]</pre></div> <p>Total cable length = 320 m. ( 1 Mark for the correct layout)</p> <p>(ii) Yes.Repeater is needed in bus layout between 3 and 4 building because according to this layout the distance between buildings 3 and 4 is 120mts. In Star layout , Repeater is needed between 3 and 4 and also between 1 &amp; 3.( 1 Mark )</p> <p>iii) a)radio wave (½ mark) b)WAN (½ mark)</p> <p>iv) The most suitable place to house the server is the building 3. In the 3 building we have the maximum number of computers installed (110 no's), so as per the 80 - 20 network design rule the server should be placed in that building where the network traffic is maximum localized which reduces the cabling cost and increases the efficiency. ( 1 Mark)</p> <p>v) Optical fiber. (1 mark)</p>	
32	<p>a) The new string is : Ss1sUs3sEs5sTs (2 marks)</p> <p>b) Statement 1: (1 mark) AR=PIC.connect(host="localhost",user="root",password="tiger",database="GALLERY")</p> <p>Statement 2: (½ mark) AR.cursor()</p> <p>Statement 3: (1 mark) Insert into Painting values({},'{}','{}',{}).format(PicID,Title,Artist,Price)</p> <p>Statement 4: (½ mark) AR.commit()</p> <p style="text-align: center;"><b>OR</b></p> <p>a) 15 # 55 # 4 # 10 # b) Statement 1: (21 mark)</p>	5	

		<p>(host="localhost",user="root",password="tiger",database="GALLERY")</p> <p>Statement 2: (½ mark) PIC.cursor()</p> <p>Statement 3: (1 mark) QR=select * from Painting where Artist="Van Gogh"</p> <p>Statement 4: (½ mark) GA.fetchall()</p>	
	33	<p>seek() function to access any given position in a file . eg f.seek(20) (1 mark) ½ mark for importing csv module 1½ marks each for correct definition of INSERTREC() and SHOWREC() ½ mark for function call statements)</p> <p style="text-align: center;"><b>OR</b></p> <p>tell() function to find howmany bytes have been written or read from file(1 mark ) ½ mark for importing csv module 1½ marks each for correct definition of Getdata() and Dispdata() ½ mark for function call statements )</p>	5
		<b>SECTION E</b>	
	34	<p>(i) New Degree: 2 (½ mark) New Cardinality: 7 (½ mark)</p> <p>(ii) Admissionnumber (½ mark) and (½ mark for justification)</p> <p>(iii) a. ALTER TABLE STUDENT ADD PHONINUMBER INTEGER; b. UPDATE STUDENT SET FIRSTNAME='PAVAN' WHERE FIRSTNAME='PAWAN'; (1 mark for each correct statement) OR (Option for part iii only)</p> <p>(iii) a. SELECT * FROM STUDENT ORDER BY LASTNAME DESC; b. INSERT INTO STUDENT VALUES(012388,'Varun','Shah','2003-07-14') (1 mark for each correct statement)</p>	4
	35	<p>(i) pickle (1 Mark)</p> <p>(ii) open("Sender.dat","rb") (1 Mark)</p> <p>(ii) pickle.load(f) (1 Mark)</p> <p>(iii) rec[1]==em: (1 Mark)</p>	4

<b>SET</b>	<b>2</b>
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Max.Marks: 70

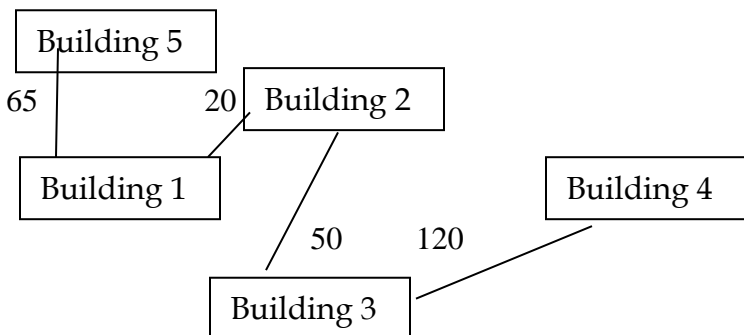
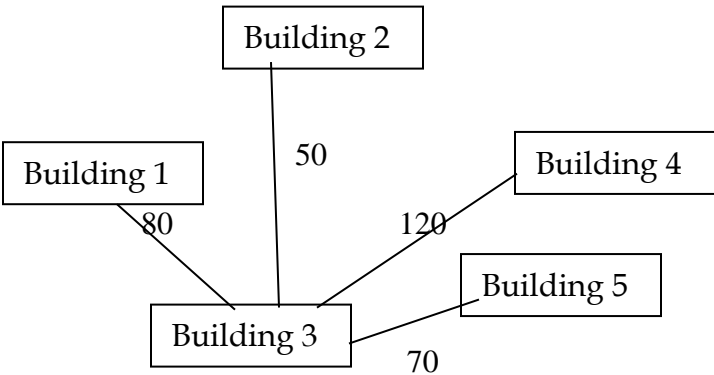
MARKING SCHEME			
SET	QN.NO	VALUE POINTS	MARKS SPLIT UP
<b>A</b>		<b>SECTION A</b>	
	1	a) 5Total	1
	2	c) ['P','U','T']	1
	3	b) 3	1
	4	(b) Tuple	1
	5	a)index()	1
	6	(a) S:P:D:	1
	7	(c) print(T[1:8:2])	1
	8	(b) tell() dROP	1
	9	((c) URL	1
	10	(a) DELETE	1
	11	7	1
	12	(c) 4	1
	13	(a) DDL	1
	14	c.Delete from student where FirstName="Pawan";	1
	15	(b) Count (*)	1

	16	Foreign key	1
	17	(c) A is True but R is False	1
	18	(d) A is false but R is True	1
		<b>SECTION B</b>	
	19	<u>def</u> checkval(): <u>  x = int(input("Enter a number"))</u>  if x % 2==0: print (x, "is even")  <u>elif</u> x<0: print (x, "should be positive")  else: print (x, "is odd")  (½ Mark for each correct correction made and underlined.)	2
	20	Any one difference between a hub and a switch (1 mark)  <p style="text-align: center;"><b>OR</b></p> any two advantages of bus topology. (1 mrk)	2
	21	(a) Output: @20 otnmx SC@ (1 Mark)  (b) Output: dict_items([('name', 'Varun'), ('age', 27), ('address', 'Chennai')]) (1 Mark)	2
	22	degree –definition (1 Mark) equijoin- definition (1 Mark)	2
	23	(a) 10. (1 Mark) List of tuples (1 Mark)	2
	24	ARPANET -ADVANCED RESEARCH PROJECTS AGENCY NETWORK  ii) GPRS –GENERAL PACKET RADIO SERVICE ((½ Mark for each)	2



		a) Function of a HTTP(1 Mark)	
	25	<p>Error (because of return in prev line)</p> <p>Output : The modified String is: H*llo how *t* *o*</p> <p><b>OR</b></p> <p>Output option is (i) (1 mark) justification - 1 mark</p>	2
		<b>SECTION C</b>	
	26	<p>(a) DDL DML difference (1 mark)</p> <p>(b) Output:</p> <p>(i)    max(salary)    min(salary)    ( ½ Mark)</p> <p>         -----</p> <p>         200000          65000</p> <p>(ii)   Name          ,          JobTitle          Sales ( ½ Mark)</p> <p>         -----</p> <p>         Sumit Sinha   Vice President   110000</p> <p>         Vijay SinghTomar President    130000</p> <p>         Mohit Kumar   Vice President   125000</p> <p>(iii)   JobId          count(*) ( ½ Mark)</p> <p>         -----</p> <p>         102            2</p> <p>         101            1</p> <p>         103            2</p> <p>(iv)   JobId          JobTitle          Salary ( ½ Mark)</p> <p>         -----</p> <p>         103   Administrator Assistant   80000</p> <p>         104   Accounting Manager       70000</p>	3
	27	<p>(½ Mark for correctly opening and closing the file 2 Marks for correct logic ½ Mark for displaying the correct output)</p> <p><b>OR</b></p> <p>(½ Mark for correctly opening and closing the file 2 Marks for correct logic ½ Mark for displaying the correct output)</p>	3
	28	<p>i)SELECT * FROM RECIPIENT ORDER BY RECNAME; ii) SELECT COUNT(*),RECCITY FROM RECIPIENT GROUP BY RECIPIENT; iii)SELECT * FROM SENDER WHERE SENDERCITY='MUMBAI'; (1 Mark for each query)</p>	3

	29	(½ mark for correct function definition 2 Marks for correct logic ½ mark for displaying the correct output)	3
	30	<pre># (first option) def PUSH(Customer):     STK=[]     for I in Customer :         if Customer [I]&gt; 35:             STK.append(I)</pre> <p style="text-align: right;">(1½ Marks for PUSH)</p> <pre>def POP(STK):     if len(STK)==0:         print('Stack empty-underflow')     else:         x=STK.pop()         print('Element popped is ',x)</pre> <p style="text-align: right;">(1½ Marks for POP)</p> <pre># (second option) def STACKPUSH(Employee):     STK=[]     for I in Employee:         if I[0]=='A':             STK.append(Employee [I])</pre> <p style="text-align: right;">(1½ Marks for PUSH)</p> <pre>def POP(STACK):     if len(STACK)==0:         print('Stack empty-underflow')     else:         x=STACK.pop()         print('Element popped is ',x)</pre>	3
		<b>SECTION D</b>	
	31	<p>(i) Yes. Repeater is needed in bus layout between 3 and 4 building because according to this layout the distance between buildings 3 and 4 is 120mts. In Star layout , Repeater is needed between 3 and 4 and also between 1 &amp; 3. ( 1 Mark )</p> <p>ii) a) radio wave (½ mark) b) WAN (½ mark)</p> <p>(iii) The most suitable place to house the server is the building 3. In the 3 building we have the maximum number of computers installed (110 no's), so as per the 80 - 20 network design rule the server should be placed in that building where the network traffic is maximum localized which reduces the cabling cost and increases the efficiency. ( 1 Mark)</p> <p style="text-align: center;">(iv)</p>	5

	<p>Layout 1 (Bus Topology)</p>  <p>5-&gt;1-&gt;2-&gt;3-&gt;4</p> <p>Total cable length = 255 m may be considered as cable length is short.</p> <p>(i) Layout 2 (Star Topology)</p>  <p>Total cable length = 320 m. ( 1 Mark for the correct layout)</p> <p>v) Optical fiber. (1 mark)</p>	
32	<p>a) The new string is : S1U3E5Ts (2 marks)</p> <p>b) Statement 1: (1 mark) AR=PIC.connect(host="localhost",user="root",password="tiger",database="GALLERY")</p> <p>Statement 2: (½ mark) AR.cursor()</p> <p>Statement 3: (1 mark) Insert into Painting values({},'{}','{}',{}).format(PicID,Title,Artist,Price)</p> <p>Statement 4: (½ mark) AR.commit()</p> <p style="text-align: center;"><b>OR</b></p> <p>a) 15 # 55 # 4 # 10 #</p> <p>b)</p> <p>Statement 1: (21 mark)</p>	5

		<p>(host="localhost",user="root",password="tiger",database="GALLERY")</p> <p>Statement 2: (½ mark) PIC.cursor()</p> <p>Statement 3: (1 mark) QR=select * from Painting where Artist="Van Gogh"</p> <p>Statement 4: (½ mark) GA.fetchall()</p>	
	33	<p>seek() function to access any given position in a file . eg f.seek(20) (1 mark) ½ mark for importing csv module 1½ marks each for correct definition of INSERTREC() and SHOWREC() ½ mark for function call statements)</p> <p style="text-align: center;"><b>OR</b></p> <p>tell() function to find howmany bytes have been written or read from file(1 mark ) ½ mark for importing csv module 1½ marks each for correct definition of Getdata() and Dispdata() ½ mark for function call statements )</p>	5
		<b>SECTION E</b>	
	34	<p>(i) New Degree: 2 (½ mark) New Cardinality: 7 (½ mark)</p> <p>(ii) Admissionnumber (½ mark) and (½ mark for justification)</p> <p>(iii) a. ALTER TABLE STUDENT ADD PHONINUMBER INTEGER; b. UPDATE STUDENT SET FIRSTNAME='PAVAN' WHERE FIRSTNAME='PAWAN'; (1 mark for each correct statement) OR (Option for part iii only)</p> <p>(iii) a. SELECT * FROM STUDENT ORDER BY LASTNAME DESC; b. INSERT INTO STUDENT VALUES(012388,'Varun','Shah','2003-07-14') (1 mark for each correct statement)</p>	4
	35	<p>(i) pickle (1 Mark)</p> <p>(ii) open("Sender.dat","rb") (1 Mark)</p> <p>(ii) pickle.load(f) (1 Mark)</p> <p>(iii) rec[1]==em: (1 Mark)</p>	4

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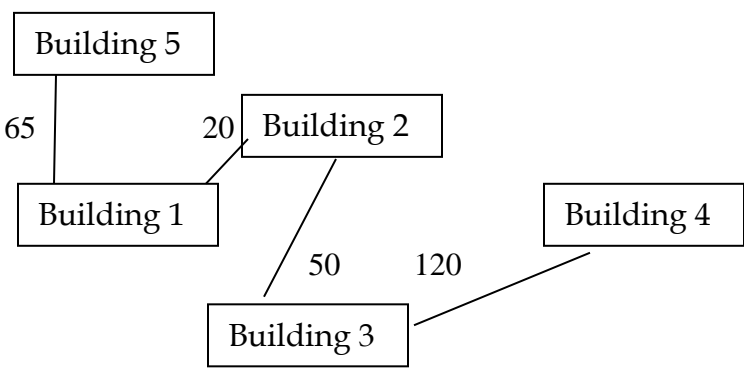
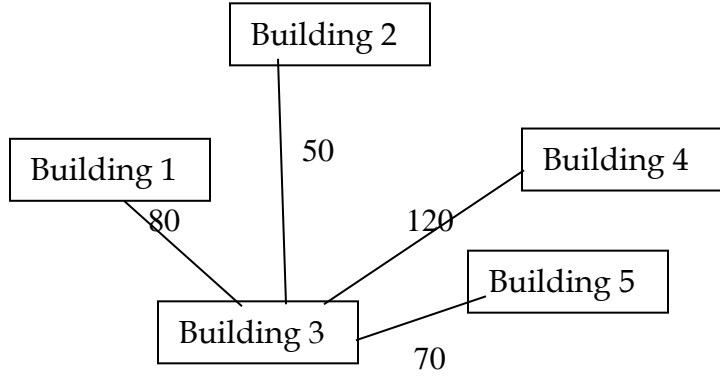
		<b>SET</b>	<b>3</b>
MARKING SCHEME			
SET	QN.NO	VALUE POINTS	MARKS SPLIT UP
<b>A</b>		<b>SECTION A</b>	
	1	(iii) del L[2]	1
	2	b) Distinct	1
	3	c) 1	1
	4	(b) Tuple	1
	5	b) index()	1
	6	Delete from student where FirstName="Pawan";	1
	7	b) or c DML	1
	8	c) dROP	1
	9	((c) URL	1
	10	(c) print(T[1:8:2])	1
	11	b) tell()	1
	12	d) 3	1
	13	D:S:P:	1
	14	Foreign key	1

	15	(b) Count (*)	1
	16	18	1
	17	(d) A is false but R is True	1
	18	(c) A is True but R is False	1
		<b>SECTION B</b>	
	19	<u>def checkval():</u> x = <u>int</u> (input("Enter a number")) if x % 2==0: print (x, "is even") elif x<0: print (x, "should be positive") else: print (x, "is odd") (½ Mark for each correct correction made and underlined.)	2
	20	protocol.. 2 examples (1 mark)  <p style="text-align: center;"><b>OR</b></p> Bridge and router difference . (1 mrk)	2
	21	(c) Output: @20 otnmx SC@ (1 Mark)  (d) Output: dict_items([('name', 'Varun'), ('age', 27), ('address', 'Chennai')]) (1 Mark)	2
	22	(b) 10. (1 Mark) List of tuples (1 Mark) )	2
	23	domain –definition (1 Mark) crossjoin- definition (1 Mark)	2
	24	XML      ii) HTTPS ((½ Mark for each)	2

		b) Function of a bridge(1 Mark)	
	25	<p>Error in statements</p> <pre> newstr += characterreturn newstr or if considered newstr += character return newstr </pre> <p>Output :</p> <p>The original String is: Hello how are you</p> <p>The modified String is: H*ll* h*w *r* y**</p> <p style="text-align: center;"><b>OR</b></p> <p>Output:</p> <p>Output option is (i) (1 mark) justification - 1 mark</p>	2
		<b>SECTION C</b>	
	26	<p>(b) Primary key – attribute which can uniquely identify records</p> <p>Candidate key- All attributes which can uniquely identify records, which can qualify to be primary key (1 mark)</p> <p>(b) Output:</p> <p>(v) JobId JobTitle Salary ( ½ Mark)</p> <pre> ----- 103 Administrator Assistant 80000 104 Accounting Manager 70000 </pre> <p>(vi) Name , JobTitle Sales ( ½ Mark)</p> <pre> ----- Sumit Sinha Vice President 110000 Vijay SinghTomar President 130000 Mohit Kumar Vice President 125000 </pre> <p>(vii) max(salary) min(salary) ( ½ Mark)</p> <pre> ----- 200000 65000 </pre> <p>(viii) JobId count(*) ( ½ Mark)</p> <pre> ----- 102 2 101 1 103 2 </pre>	3

	27	<p>(½ Mark for correctly opening and closing the file 2 Marks for correct logic ½ Mark for displaying the correct output)</p> <p style="text-align: center;"><b>OR</b></p> <p>(½ Mark for correctly opening and closing the file 2 Marks for correct logic ½ Mark for displaying the correct output)</p>	3
	28	<p>i)SELECT * FROM RECIPIENT ORDER BY RECNAME; ii) SELECT COUNT(*),RECCITY FROM RECIPIENT GROUP BY RECIPIENT; iii)SELECT * FROM SENDER WHERE SENDERCITY='MUMBAI'; (1 Mark for each query)</p>	3
	29	<p>(½ mark for correct function definition 2 Marks for correct logic ½ mark for displaying the correct output)</p>	3
	30	<pre># (first option) def PUSH(Fruits):     STK=[]     for I in Fruits:         if Fruits[I]&gt;100:             STK.append(flight[I])                                 (1½ Marks for PUSH)  def POP(STK):     if len(STK)==0:         print('Stack empty-underflow')     else:         x=STK.pop()         print('Element popped is ',x)                                 (1½ Marks for POP)  # (second option) def STACKPUSH(flight):     STK=[]     for I in flight:         if flight[I]&gt;103:             STK.append(flight[I])                                 (1½ Marks for PUSH)  def POP(STACK):     if len(STACK)==0:         print('Stack empty-underflow')     else:         x=STACK.pop()         print('Element popped is ',x)</pre>	3
		<b>SECTION D</b>	
	31	<p>(ii) The most suitable place to house the server is the building 3. In the 3 building we have the maximum number of computers installed</p>	5



		<p>(110 no's), so as per the 80 - 20 network design rule the server should be placed in that building where the network traffic is maximum localized which reduces the cabling cost and increases the efficiency. ( 1 Mark)</p> <p>(iii) Layout 1 (Bus Topology)</p>  <p>5-&gt;1-&gt;2-&gt;3-&gt;4</p> <p>Total cable length = 255 m may be considered as cable length is short.</p> <p>(iv) Layout 2 (Star Topology)</p>  <p>Total cable length = 320 m.</p> <p>( 1 Mark for the correct layout)</p> <p>(ii) Yes.Repeater is needed in bus layout between 3 and 4 building because according to this layout the distance between buildings 3 and 4 is 120mts. In Star layout , Repeater is needed between 3 and 4 and also between 1 &amp; 3.( 1 Mark )</p> <p>(v) a)radio wave (½ mark) b)WAN (½ mark)</p> <p>(vi) Optical fiber. (1 mark)</p>	
	32	<p>c) The new string is : S1U3E5Ts (2 marks)</p> <p>d) Statement 1: (1 mark) AR=PIC.connect(host="localhost",user="root",password="tiger",database="GALLERY")</p>	5

		<p>Statement 2: (½ mark) AR.cursor()</p> <p>Statement 3: (1 mark) Insert into Painting values( {}, ' {} ', ' {} ', {} ).format(PicID,Title,Artist,Price)</p> <p>Statement 4: (½ mark) AR.commit()</p> <p style="text-align: center;"><b>OR</b></p> <p>c) 15 # 55 # 4 # 10 # d)</p> <p>Statement 1: (1 mark)  (host="localhost",user="root",password="tiger",database="GALLERY")</p> <p>Statement 2: (½ mark) PIC.cursor()</p> <p>Statement 3: (1 mark) QR=select * from Painting where Artist="Van Gogh"</p> <p>Statement 4: (½ mark) GA.fetchall()</p>	
	33	<p>a)tell() function to find howmany bytes have been written or read from file(1 mark ) ½ mark for importing csv module 1½ marks each for correct definition of INSERTREC() and SHOWREC() ½ mark for function call statements)</p> <p style="text-align: center;"><b>OR</b></p> <p>seek() function to access any given position in a file . eg f.seek(20) (1 mark)</p> <p>½ mark for importing csv module 1½ marks each for correct definition of Getdata() and Dispdata() ½ mark for function call statements )</p>	5
		<b>SECTION E</b>	
	34	<p>(j) New Degree: 1 (½ mark) New Cardinality: 7 (½ mark)</p> <p>(iv) Admissionnumber (½ mark) and (½ mark for justification)</p> <p>(v) c. ALTER TABLE STUDENT ADD PHONINUMBER INTEGER; d. UPDATE STUDENT SET FIRSTNAME='PAVAN' WHERE FIRSTNAME='PAWAN'; (1 mark for each correct statement)</p>	4

		<p>OR (Option for part iii only)</p> <p>(iii)</p> <p>a. SELECT * FROM STUDENT ORDER BY LASTNAME DESC;</p> <p>b. INSERT INTO STUDENT VALUES(012388,'Varun','Shah','2003-07-14')</p> <p>(1 mark for each correct statement)</p>	
	35	<p>(iv) pickle (1 Mark)</p> <p>(v) open("Sender.dat","rb") (1 Mark)</p> <p>(ii) pickle.load(f) (1 Mark)</p> <p>(vi) rec[1]==em: (1 Mark)</p>	4