

**www.Learnpython4cbse.com**  
**Class-12 Subject: Computer Science (083)**  
**Answer Key**

SECTION-A		
QN.	Answer of Question	
1.	False	1
2.	False	1
3.	True#False	1
4.	False	1
5.	(b)Python. is amazing.	1
6.	(c) w+	1
7.	(a) foreign key	1
8.	(d) UPDATE	1
9.	(b) Statement 4	1
10	(b) global p	1
11	(a) split()	1
12	(a) mango*banana*grapes	1
13	(b) SMTP	1
14	Ans. (a) 16	1
15	(d) flush()	1
16	(a) cursor.rowcount	1
17	Ans. (c) A is True but R is False	1
18	Ans: (a) Both A and R are true and R is the correct explanation for A	1
SECTION-B		
19.	<pre>Num=int(input("Number greater than 10 :")) sum=0 for i in range(10,Num,3):     Sum+=1     if i%2==0:         print(i*2)     else:         __print(i*3) print(Sum)</pre>	2
20.	1 mark for any correct advantage and disadvantage each <b>OR</b> <b>Hyper Text Markup Language. Yes it has pre defined tags.</b>	2
21.	(a) Ans: riya riya (b) dict_keys(['empname', 'address', 'salary'])	1 1
22.	Ans. GROUP BY clause is used to get the summary data based on one or more groups. The groups can be formed on one or more columns. For example, the GROUP BY query will be used to count the number of employees in each department, or to get the department wise total salaries. SELECT COUNT(ENAME), SUM(SALARY), DEPT FROM EMPLOYEES GROUP BY DEPT;	2
23.	(i) Post office Protocol 3 (ii) Voice over Internet Protocol (b) Ans: Registered Jack-45 is used as connector to connect ethernet cable to ethernet Port in the CPU	2

24.	<p>Ans: 20000 # 100.0 100.0 \$ 200 2000 # 200.0 100.0 \$ 200.0 1000.0 # 100.0 100.0 \$ 200.0</p> <p style="text-align: center;">OR</p> <p>Ans: (‘Python’) 6 3</p>	2										
25.	<p>Ans. Where” clause is used to filter the records from a table that is based on a specified condition, then the “Having” clause is used to filter the record from the groups based on the specified condition.</p> <p style="text-align: center;">OR</p> <p>Ans. Aggregate function are group functions which works on group of rows. Examples are sum(), min(), max(), avg(), count() etc.</p>	2										
<b>SECTION-C</b>												
26.	<p>a)</p> <table border="1" data-bbox="321 890 748 1079"> <thead> <tr> <th>Name</th> <th>Dept</th> </tr> </thead> <tbody> <tr> <td>Lakshya</td> <td>Computer</td> </tr> <tr> <td>Ravi</td> <td>Physics</td> </tr> <tr> <td>Neeraj</td> <td>Sports</td> </tr> <tr> <td>Brijesh</td> <td>English</td> </tr> </tbody> </table> <p>b)</p> <p>(i) Vice principal     1</p> <p>(ii) YASHRAJ       UMESH</p>	Name	Dept	Lakshya	Computer	Ravi	Physics	Neeraj	Sports	Brijesh	English	1+2
Name	Dept											
Lakshya	Computer											
Ravi	Physics											
Neeraj	Sports											
Brijesh	English											
27.	<p>Ans:</p> <pre>def beginA():     f=open('Notebook.TXT')     l=f.readlines()     for i in l:         if i[0]!='A' or i[0]='a':             #or if i[0] in ["A","a"]             print(i)     f.close()</pre> <p style="text-align: center;">OR</p> <pre>fr=open("PYTHON.TXT") fw=open("PYTHON1.TXT", 'w') d=fr.read() for i in d:     if not i.isdigit():         fw.write(i) fr.close() fw.close()</pre>	3										

	½ marks each for correct piece of code																	
28.	<p>Ans. (a)</p> <p>i) Give 1 mark each correct output  SPORTS      MIN(PAY)  Karate      1000  Squash      2000  Basketball 1500  Swimming 750</p> <p>ii) Give 1 mark each correct output  <u>MAX</u>(DATEOFAPP),    <u>MIN</u>(DATEOFAPP)  24/02/1998                      27/03/1996</p> <p>iii) Give 1 mark each correct output</p> <table border="0"> <tr> <td><u>CNAME</u></td> <td><u>PAY</u></td> <td><u>C.COACHID</u></td> <td><u>SPORTS</u></td> </tr> <tr> <td>TARUN</td> <td>1500</td> <td>4</td> <td>BASKETBALL</td> </tr> <tr> <td>SHAILYA</td> <td>1700</td> <td>10</td> <td>BASKETBALL</td> </tr> </table> <p>iv) Give 1 mark each correct output</p> <table border="0"> <tr> <td><u>SNAME</u></td> <td><u>CNAME</u></td> </tr> <tr> <td>ANUJ</td> <td>KATAKI</td> </tr> </table> <p>b) Show databases;</p>	<u>CNAME</u>	<u>PAY</u>	<u>C.COACHID</u>	<u>SPORTS</u>	TARUN	1500	4	BASKETBALL	SHAILYA	1700	10	BASKETBALL	<u>SNAME</u>	<u>CNAME</u>	ANUJ	KATAKI	3
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29.	<pre>def shiftn(L,n):     return L[n:]+L[:n]</pre>	3																
30.	<pre>visitors=[[ '305', '10/11/2022', 'Geeta','F', 15],[ '306', '10/11/2022', 'Arham','M', 15],[ '307', "11/11/2022", 'David','M', 18],[ '308', "11/11/2022", 'Madhuri','F', 17]] status=[] def Push_Element(visitors):     global status     for i in visitors:         if i[4]&gt;=15 and i[4]&lt;=20:             status.append(i[3])  def Pop_Element():     global status     m,f=0,0     if status!=[]:         r=status.pop()         if r=='F':             f+=1         else:             m+=1     else:         print("Female :",f)         print("Male :",m)         print("Done")  OR  def Push(EventDetails):     BigEvents=[]     count=0     for i in EventDetails:         if EventDetails[i]&gt;200:             BigEvents.append(i)             count+=1     print("The count of elements in the stack is",count)</pre>	3																
<b>SECTION-D</b>																		

31.	<p>Ans. (i) HR because it has maximum number of computers  (ii) Star topology with HR at centre (any appropriate block diagram)  (iii) Switch need to be installed in each of the block repeater where distance is greater than 100m  (iv) VoIP  (v) WAN</p>	5*1								
32.	<p>Ans. (a)  10 # 5  10 # 10  20 # 10  20 # 20</p> <p>Ans: (b)  Statement 1:  con.cursor()  Statement 2:  mycursor.execute(query)  Statement 3:  con.commit()</p> <p style="text-align: center;">OR</p> <p>Ans. (a) gliE# E#A#GgAas# F# AaEe#  Ans. (b)  Statement 1: con.cursor()  Statement 2: mycursor.execute("select Name from items where price&gt;100")  Statement 3: mycursor.fetchall()</p>	2+3								
33.	<p>(a) Advantage of a csv file:  It is human readable – can be opened in Excel and Notepad applications  It is just like text file  (b) ½ marks for each correct piece of code.</p> <p style="text-align: center;">OR</p> <p>Ans: Difference between binary file and csv file: (Any one difference may be given) Binary file:</p> <table border="1" data-bbox="329 1310 1287 1497"> <thead> <tr> <th style="text-align: center;"><u>Binary</u></th> <th style="text-align: center;"><u>CSV</u></th> </tr> </thead> <tbody> <tr> <td>Extension is .dat</td> <td>Extension is .csv</td> </tr> <tr> <td>Not human readable</td> <td>Human readable</td> </tr> <tr> <td>Stores data in the form of 0s and 1s CSV file</td> <td>Stores data like a text file</td> </tr> </tbody> </table> <p>Program:  import csv  def add():  fout=open("empdata.csv","a",newline='\n')  wr=csv.writer(fout)  fid=int(input("Enter Emp Id :: "))  fname=input("Enter Emp name :: ")  fprice=int(input("Enter psalary :: "))  FD=[eid,ename,salary]  wr.writerow(FD)  fout.close()  def search():  fin=open("furdata.csv","r",newline='\n')  data=csv.reader(fin)</p>	<u>Binary</u>	<u>CSV</u>	Extension is .dat	Extension is .csv	Not human readable	Human readable	Stores data in the form of 0s and 1s CSV file	Stores data like a text file	2+3
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	<pre> found=False print("The Details are") for i in data:     if int(i[2])&gt;10000:         found=True         print(i[0],i[1],i[2])     if found==False:         print("Record not found")     fin.close() add() print("Now displaying") search() </pre>	
SECTION-E		
34.	<p>Ans. (i) ItemNo  (ii) Cardinality=3 and Degree=9  (iii)  a) Insert into items values (2024, 'point pen', 20, 11, 350, '2022-NOV-15');  b) Update items  Set rate=rate+(rate*0.02)  Where Item like '%c';  OR  iii) Delete From items where rate&gt;=10;  b) Alter table items Add column (Remarks Varchar(50));</p>	1+1 +2
35.	<p><b>(i)</b> pickle  <b>(ii)</b> fout=open('extra.dat', 'wb')  <b>(iii)</b> pickle.load(fin)  <b>(iv)</b> pickle.dump(rec,fout)</p>	1 1 1 1