

**KENDRIYA VIDYALAYA SANGATHAN, LUCKNOW REGION**

**Second Pre-Board Examination**

**Class XII : Computer Science (083)**

**Session: 2020-21**

**Time: 3 hrs**

**MARKING SCHEME**

**M.M.: 70**

<b><u>PART-A</u></b>		
<b>Section-I</b>		
<b>Select the most appropriate option out of the options given for each question. Attempt any 15 questions from question no. 1 to 21.</b>		
<b>QN</b>	<b>Questions Description</b>	<b>Marks Allotted</b>
1.	a)5Total	1
2.	['violet', 'indigo', 'green', 'red']	1
3.	F=open("ABC.TXT","r+") or F=open("ABC.TXT","w+")	1
4.	(d) //	1
5.	(a) Tp1=("a","b")	1
6.	d={1:"one",3:"three",5:"five",7:"seven",9:"nine"}	1
7.	[20, 30, 40, 50, 60, 10, 20, 30]	1
8.	(ii) each of the keys within a dictionary must be unique	1
9.	17.0	1
10	(i)random (ii) math	1
11	File Transfer Protocol(FTP)	1
12	DISTINCT	1
13	AVG()	1
14	a) MAX ( )	1
15	HAVING Clause	1
16	To display the list of existing databases.	1
17	URL – Uniform Resource Locator TDMA – Time Division Multiple Access	1
18	Optical Fiber Cable	1
19	Bps is Byte per second and bps is bits per second which tells the variation in data transmission speed.	1
20	LAN	1
21	Not equal to	1

<b>PART-A Section-II</b>		
<b>Both the case study-based questions are compulsory. Attempt any 4 out of the 5 subparts from each question. Each question carries 1 mark.</b>		
22(a)	Book_ID	4
(b)	Degree: 5, Cardinality: 6	
(c)	SELECT Title, Author FROM BOOKS WHERE Publiser='Penguin';	
(d)	SELECT * FROM BOOKS ORDER BY Price DESC;	
(e)	DESC BOOKS; OR DESCRIBE BOOKS; (1 mark for any suitable output)	
23.	(a) csv (b) "a" (c) writerow (d) reader (e) INDIA=>NEW DELHI CHINA=> BEIJING	4
<b>PART-B Section-I</b>		
<b>Short answer questions of 2 marks each in which two question have internal options.</b>		
24.	10 # 10 10 \$ 20 2 # 2 10 \$ 2 .5 mark for each correct line.	2
25.	Hub forwards the message to every node connected and create a huge traffic in the network hence reduces efficiency whereas a Switch is also called intelligent hub since it redirects the received information/ packet to the intended node(s). In a large network a switch is preferred to reduce the unwanted traffic in the network which may also reduce the bandwidth and cause network congestion. 1 mark for each Or Mohan is using PAN-Personal Area Network. It is a private network which is setup by an individual to transfer data among his personal devices of home. 1 mark for Identification. 1 mark for Explanation	2
26.	a. HTML-HyperText Markup Language b. MAC-Media Access Control c. SIM- Subscriber Identity Module d. GSM-Global system for mobile communication ½ mark for each.	2
27.	Return value of a function is the value which is being given back to the main program after the execution of function. E.g. def Check(): return 100  OR Positional arguments are those which are used & passed in a particular sequence always. Default arguments are those whose default value is used by the function in the absence of actual argument values at the time of functional call.  1 mark for each correct definition & example.	2



28.	<pre>Number=250 while Number&lt;=1000:     if Number&gt;=750:         print(Number)         Number=Number+100     else:         print(Number*2)         Number=Number+50</pre> <p>.5 mark for each correct error.</p>	2
29.	<p>(a) Maximum value of BEG: 2 Maximum value of END: 4 1+ .5 +.5 marks for correct answer</p>	2
30.	<p>Constraints are the checking condition which we apply on table to ensure the correctness of data. example primary key, not null, default, unique etc 1 mark for definition. 1/2 mark for each example.</p>	2
31.	<p>{ } and fetchone()</p>	2
32.	<p>WHERE clause is used to select particular rows that satisfy a condition whereas HAVING clause is used in connection with the aggregate function, GROUP BY clause. For ex. – select * from student where marks &gt; 75; This statement shall display the records for all the students who have scored more than 75 marks. On the contrary, the statement - select stream, count(*) from student group by stream having count(*) &gt; 20 ; shall display streams and total students if total students in a stream are &gt; 20.</p>	2
33.	<p>Output: ISSCE *3132</p> <p>2 marks for correct answer. 1 mark for partial correct output.</p>	2
<p><b>PART-B</b> <b>Section-II</b> <b>Short answer questions of 3 marks each in which two question have internal options.</b></p>		
34.	<pre>def common(L1,L2):     L3=[]     for i in L1:         if i in L2:             L3.append(i)     L3.sort()     print(L3)</pre> <p>.5 mark for correct declaration of function header 2 marks for correct logic .5 mark for sorting</p>	3
35	<pre>def COUNTLINES_ET():     f=open("REPORT.TXT","r")     lines=f.readlines()     LineE=0     LineT=0     for i in lines:         if i[0]=='E':             LineE+=1         elif i[0]=='T':             LineT+=1      print("No. of Lines with E:",LineE)     print("No. of Lines with T:",LineT)  COUNTLINES_ET()</pre>	3

.5 mark for correct function header.  
 .5 mark for correct opening of file.  
 1.5 mark for any correct logic & it's code.  
 .5 mark for printing correct output.

OR

```
def BIGWORDS():
    f=open("code.txt","r")
    data=f.read()
    word=data.split()
    c=0
    for w in word:
        if len(w)>=5:
            print(w)
            c=c+1
    print("no of words which are having 5 or more alphabets",c)
BIGWORDS()
```

.5 mark for correct function header.  
 .5 mark for correct opening of file.  
 1.5 mark for any correct logic & it's code.  
 .5 mark for printing correct output.

36.

- 1) 2
- 2)
 

Company	Max(Price)	Min(Price)	Count(*)
ABC	15	10	2
XYZ	7	6	2
CAM	5	5	1
- 3)

<b>Good Learner</b>	<b>Pencil</b>	<b>5</b>
<b>Write Well</b>	<b>Gel Pen</b>	<b>15</b>
<b>Topper</b>	<b>Dot Pen</b>	<b>10</b>
<b>Write &amp; Draw</b>	<b>Pencil</b>	<b>6</b>

1 marks for each correct answer.

3

37.

```
#Function to push student record in stack
stk=[]
def stk_push(stk):
    rno=int(input("enter rno."))
    name=input("enter name")
    age=int(input("enter age"))
    item={"rno":rno,"name":name,"age":age}
    stk.append(item)
```

OR

```
#Function to push prime no.in stack
stack=[]
def PUSH(Lst,stack):
    for i in Lst:
        for j in range(2,i):
            if i%j==0:
                break
        else:
            stack.append(i)
    if(stack==[]):
        print("stack is empty")
    else:
        top=len(stack)-1
        for i in range(top,-1,-1):
            print(stack[i])
```

3 marks for correct logic

3



<b>PART-B</b> <b>Section-III</b> <b>Short answer questions of 5 marks each in which ONE question have internal options.</b>		
38. (i)	Shahjahanpur , Maximum no of Computers ½ Mark for Naming and ½ for reason.	1
(ii)	Any suitable layout 1 Mark for correct layout.	1
(iii)	Switch 1 Mark for Correct answer.	1
(iv)	Kanpur to Bareli Block if direct connection is there. ½ marks for naming and ½ marks for justification.	1
(v)	WAN: spread over more than one city ½ marks for naming and ½ marks for justification.	1
39.(i)	SELECT PERIODS FROM SCHOOL WHERE SUBJECT = 'ENGLISH';	1
(ii)	SELECT SCHOOL.TEACHERNAME, SCHOOL.CODE, ADMIN.DESIGNATION FROM SCHOOL, ADMIN WHERE GENDER='MALE' AND SCHOOL.CODE = ADMIN.CODE ;	1
(iii)	select SUBJECT, count(*) from SCHOOL group by SUBJECT;	1
(iv)	select * from SCHOOL where DOJ >' 01/01/1999' order by EXPERIENCE desc;	1
(v)	select * from SCHOOL where EXPERIENCE<10; (1 mark for each correct answer)	1
40.	<pre>import pickle def createFile():     fobj=open("Account1.dat","ab")     accno=int(input("Account number : "))     acctype=input("Account type :")     accholdername = input("Account holder name: ")     balance=int(input("enter balance"))     rec=[accno,acctype,accholdername,balance]     pickle.dump(rec,fobj)     fobj.close() def CountBalanceAbove(BAL):     fobj=open("Account1.dat","rb")     num = 0     try:         while True:             rec=pickle.load(fobj)             if rec[3]&gt;BAL:                 print(rec)                 num = num + 1     except:         fobj.close()     return num</pre> <p>(2.5 marks for each correct answer)</p> <p style="text-align: center;">OR</p> <pre>import csv def DISPEMP():     with open('emp.csv') as csvfile:         myreader = csv.reader(csvfile,delimiter=',')         print("%10s"%EMPNO,"%20s"%EMP NAME,"%10s"%SALARY")         for row in myreader:             if int(row[2])&gt;=4000:                 print("%10s"%row[0],"%20s"%row[1],"%10s"%row[2])</pre> <p>(5 marks for correct answer)</p>	5