KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION

PRE BOARD – II EXAMINATION (Session 2023-24)

Class: XII Time Allowed: 03:00 Hours Subject: (083) Computer Science Maximum Marks: 70

General Instructions:

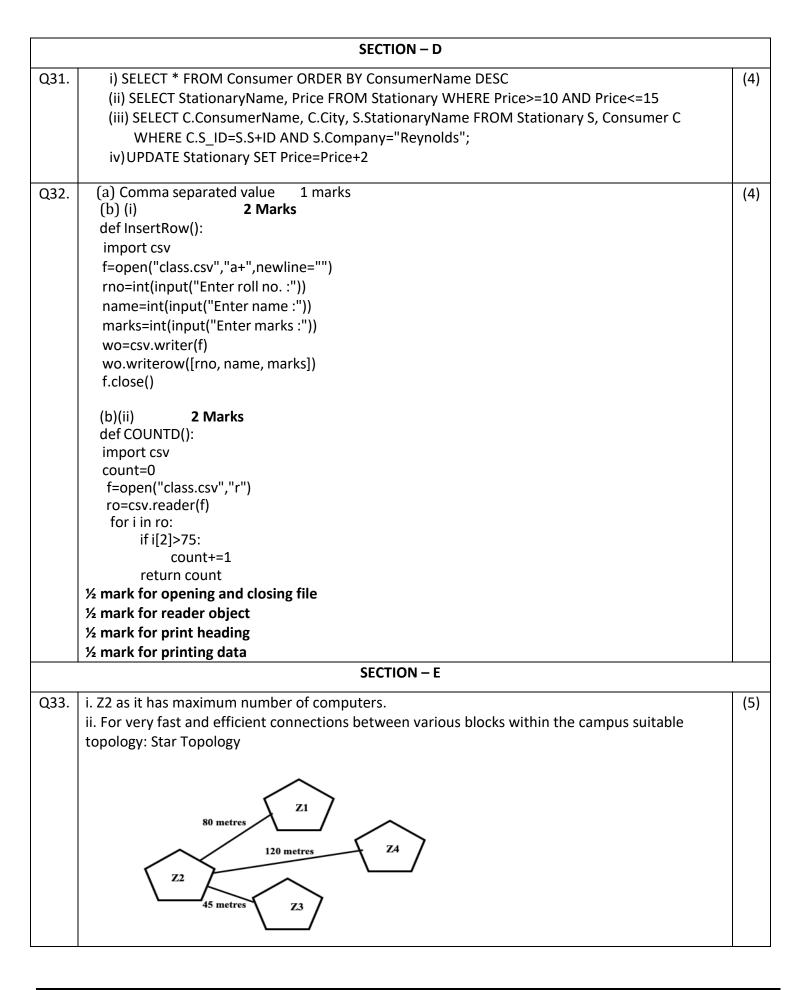
- Please check this question paper contains 35 questions.
- The paper is divided into 4 Sections- A, B, C, D and E.
- Section A, consists of 18 questions (1 to 18). Each question carries 1 Mark.
- Section B, consists of 7 questions (19 to 25). Each question carries 2 Marks.
- Section C, consists of 5 questions (26 to 30). Each question carries 3 Marks.
- Section D, consists of 2 questions (31 to 32). Each question carries 4 Marks.
- Section E, consists of 3 questions (33 to 35). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.

	SECTION – A	
Q1.	True	(1)
Q2.	C) A view of existing column with different name	(1)
Q3.	c) 512	(1)
Q4.	c) {'A':4000, 'B':2500, 'C':3000}	(1)
Q5.	b) 8,15	(1)
Q6.	b) Router	(1)
Q7.	(b) a dictionary is a set of key-value pairs	(1)
Q8.	b)Ye-r 2024 -II the best	(1)
Q9.	d) Statement 4	(1)
Q10.	a) rgb	(1)
Q11.	c) distinct()	(1)
Q12.	c)['q']#['u']#['i']#['e']#	(1)
Q13.	a)cursor.rowcount	(1)
Q14.	a) Aggregate functions ignore NULL	(1)
Q15.	a. TCP	(1)
Q16.	b) SEEK	(1)
Q17.	a)	(1)
Q18.	d)	(1)

	SECTIO	DN – B		
Q19.	. (i) ½ mark for each correct expansion HTML(Hypertext mark Up language) ② We use pre-defined tags ② Static web development language – only focuses on how data looks ③ It use for only displaying data, cannot transport data ② Not case sensitive XML (Extensible Markup Language) ② we can define our own tags and use them ② Dynamic web development language – as it is used for transporting and storing data ② Case sensitive 1 mark for any one correct difference No mark to be awarded if only full form is given OR			
	(I) 1 mark for correct definition			
	(ii) 1/2 mark for each correct name of w	eb browser.		
Q20.	Def checkNumber(N): status = N%2 return	# Def should be def # return what? Should be return status	(2)	
	#main-code num=int(input(" Enter a number to check :)) mark	# Message not enclosed within quotation		
	k=checkNumber(num) if k = 0: print("This is EVEN number") else: print("This is ODD number") (½ mark for each correct correction made and units)	# must be k = = 0 nderlined.)		
021				
Q21.	 ½ mark for correct function header ½ mark for correct loop ½ mark for correct if statement ½ mark for displaying the output OR			
	½ mark for correct function header ½ mark for correct loop ½ mark for correct if statement ½ mark for displaying the output			
Q22.	unchanged (30, 50) changed (16, 50) unchanged (16, 22) changed (11, 22) (½ mark for each correct Output)		(2)	

Q23.	d) All are possible (
	OR						
	Minimum 0 and maximum 1						
	(1 mark for each correct Output)						
Q24.	1 mark for corre	ct ALTER TABLE comm	nand	(2)			
		add primary key:					
	ALTER TABLE Stu	dent ADD Stuld INTEC	GER PRIMARY KEY;				
	1 mark for corre	ct INSERT command					
	As the primary key is added as the last field, the command for inserting data will be:						
	INSERT INTO Student VALUES("Shweta","XII",98,1299);						
	Alternative answ		oo Mark) \/ALLIES/4200 Sh.v.oto YII 00).				
			ss,Mark) VALUES(1299,"Shweta","XII",98);				
Q25.	50#5 (2 marks f	or correct answer)		(2)			
	20		OR				
	40						
	(2 marks for corr	ect answer)					
	,	•	SECTION – C				
			SECTION - C				
Q26.	ND-*34			(3)			
Q27.		correct character)		(2)			
QZ7.	1 mark for each (i)	torrect output		(3)			
	MAKE						
	Toyota						
	Tata						
	Renault						
	Suzuki						
	(ii)						
	MAKE	COUNT(*)					
	Toyota	1					
	Tata	2					
	Renault	2					
	Suzuki	1					
	(iii)						
	CNAME						
	Duster						
	Fortuner						
Q28.	def rdlines():			(3)			
	file = open('visitors.txt','r') for line in file:						
	if line[0] == 'P': print(line)						
	file.close()						

```
# Call the rdlines function. rdlines()
       ½ mark for function header
       1 mark for opening file
      1 mark for correct for loop and condition
      ½ mark for closing file
                                             OR
      def count word():
         file = open('india.txt','r') count = 0
         for line in file:
           words = line.split() for word in
           words:
             if word == 'India': count += 1
           print(count) file.close()
      # call the function count word(). count word()
      1/2 mark for function header
       1 mark for opening file
      1 mark for correct for loop and condition
     1/2 mark for closing file
Q29.
           Select company, avg(Price) from toys group by company having Qty>15;
                                                                                          (3)
           Select Company, count(distinct name) from toys group by Company;
           Select name, sum(Price* Qty) from toys;
           ½ mark for the Select with avg(), ½ mark for the having clause
           ½ mark for the Select with count(), ½ mark for group by clause
           ½ mark for the Select with sum(), ½ mark for the group by clause
Q30.
                                                                                          (3)
      travel = []
      def Push element (NList):
              for L in NList:
                      if L[1] != "India" and <math>L[2] < 3500:
                              travel.append([L[0], L[1]])
      def Pop element():
              while len(travel):
                     print(travel.pop())
              else:
                     print("Stack Empty")
     1 ½ marks for each function
```



```
iii. Repeater: To be placed between Block Z2 to Z4 as distance between them is more than 100
      metres.
      Hub/Switch: To be placed in each block as each block has many computers that needs to be
      included to form a network.
      iv. Voice Over Internet Protocol
      v. WAN as distance between Delhi and Mumbai is more than 40kms.
      (1 mark for each correct answer)
34.
       import pickle
                                                                                                          5
       def createFile():
           fobj=open("Book.dat","ab")
           BookNo=int(input("Book Number : "))
           Book name=input("Name :")
           Author = input("Author:")
           Price = int(input("Price : "))
           rec=[BookNo,Book Name,Author,Price]
           pickle.dump(rec,fobj)
           fobj.close()
       def CountRec(Author):
       fobj=open("Book.dat","rb")
       num = 0
           try:
              while True:
              rec=pickle.load(fobj)
              if Author==rec[2]:
              num = num + 1
           except:
                 fobj.close()
                 return num
                                                     or
       import pickle
       def CountRec():
           fobj=open("STUDENT.DAT","rb")
           num = 0
            try:
                while True:
                    rec=pickle.load(fobj)
                    if rec[2] > 75:
                            print(rec[0],rec[1],rec[2],sep="\t")
                           num = num + 1
            except:
              fobj.close()
           return num
```

```
Domain is a set of values from which an attribute can take value in each row. For example, roll no
Q35.
                                                                                                            (5)
      field can have only integer values and so its domain is a set of integer values
      ½ mark for correct definition
      ½ mark for correct example
       import mysql.connector as mysql
       con1 = mysql.connect(host="localhost",user="root", password="tiger", database="sample2023")
       mycursor=con1.cursor()
       rno = int(input("Enter Roll Number:: "))
       name = input("Enter the name:: ")
       DOB = input("Enter date of birth:: ")
       fee= float(input("Enter Fee:: "))
       query = "INSERT into student values({},'{}','{}','{}',f)".format(rno,name,DOB,fee)
       mycursor.execute(query)
       con1.commit()
       print("Data added successfully")
       con1.close()
      1/2 mark for importing correct module
      1 mark for correct connect()
      1/2 mark for correctly accepting the input
      1 1/2 mark for correctly executing the query
      ½ mark for correctly using commit()
      OR
          (I)
                  1 mark for correct difference
          (II)
       import mysql.connector as mysql
       con1 = mysql.connect(host="localhost", user="root", password="tiger", database="sample2023")
       mycursor=con1.cursor()
       query = "SELECT * FROM student where fee>{}".format(5000)
       mycursor.execute(query)
       data=mycursor.fetchall()
       for rec in data:
           print(rec)
       con1.close()
      ½ mark for importing correct module
      1 mark for correct connect()
      1 mark for correctly executing the query
      ½ mark for correctly using fetchall()
      1 mark for correctly
```