**KENDRIYA VIDYALAYA SANGATHAN: JABALPUR REGION**

**PREBOARD-1 (2024-25)**

**COMPUTER SCIENCE (THEORY)**

**CLASS: XII Time allowed: 3 Hours Maximum Marks:70**

**Marking Scheme**

**General Instructions:**

* *In case any doubt regarding the answer the evaluator can check by himself/herself and do the needful*

|  |  |  |
| --- | --- | --- |
| **Q No.** | **Section-A (21x1=21Marks)** | **Marks** |
| 1. | False | (1) |
| 2. | 1. C) not (True or False)
 | (1) |
| 3. | 1. B) split()
 | (1) |
| 4. | 1. C) error
 | (1) |
| 5. | B) xlnd  | (1) |
| 6. |  D) 2024 | (1) |
| 7. |  B) print(D['Computer'])  | (1) |
| 8. |  B) remove deletes the list or tuple from the memory  | (1) |
| 9. |  A) 1  | (1) |
| 10. |  B) 100, 10  | (1) |
| 11. | try …except block | (1) |
| 12. | 1. 945$9\*
 | (1) |
| 13. | A) DDL | (1) |
| 14. |  B) Show tuples of students table only with the age values 17,19,21 | (1) |
| 15. | A) date  | (1) |
| 16. |  D) upper | (1) |
| 17. |  D) MIME | (1) |
| 18. |  D) Repeater | (1) |
| 19. | 1. Subscriber Identity Module & General Packet Radio Service
 | (1) |
| 20. |  B) **Both A and R are true and R is not the correct explanation for A** | (1) |
| 21. | 1. **Both A and R are true and R is the correct explanation for A**
 | (1) |
| **Q No** | **Section-B(7x2=14 Marks)** | **Marks** |
| 22. | a) Either definition of dictionary or example of dictionary 1 markb) (i) x=10 integer ½ mark (ii) x=10,20 tuple ½ mark  |  |
| 23. | Relevant explanation about in operator Eg. A=”welcome”if ‘e’ in A: print(“found a vowel”)or any code that demonstrate the use of in operator |  1 mark  1 mark example |
| 24. | Consider T=(10,20,30) and L=[60,50,40] answer the question I and II (I)L.append(T)OR As T is tuple deletion of an element is tuple is not possible due to its immutable nature.(any relevant correct reason) | 1 markOR1 mark |
|  (II)L.insert(50,2)  ORdel T | 1 markOR1 mark |
| 25. |   B) m$p$ C) c$n$ For each correct answer ½ mark Value of b minimum 1 and maximum 14  ½ mark for each minimum and maximum |   |
| 26. | Any relevant code with following marks distribution½ mark for correct function declaration1 ½ mark for logicimport pickledef RECORDS(): with open(“district.dat”,”r”) as file: name=input(“Enter name of district”) try: while(1): a=pickle.load(file)  if a[0]==name: print(a) except EOFError: break or any relevant correct code  | (2) |
| 27. | (I)1. Use of Primary key or Any relevant correct answer 1 mark

OR1. Use of Primary key for rno in students table and use of foreign key in marks table for connecting the two tables or Any relevant correct answer 1mark

 (II)A) Alter table stationary modify(price number(10,2); 1 markOR B) Update table stationary set price=Null;  | (2) |
| 28. | 1. Any 2 correct difference between star and mesh topology - 2 marks

(partial marks can be awarded on partial correct answer).**OR**1. (i) VoLTE Voice over Long Term Evolution 1 mark

(ii) GSM Global System for Mobile communication 1 mark  | (2) |
| **Q No.** | **Section-C(3x3=9Marks)** | **Marks** |
| 29. |  1 ½ mark for logic, ½ mark for indentation ½ mark for correct file opening  command , ½ mark for print command 1. with open( “chars.txt”,”r”) as file:

 d=file.read() WL=d.split() for w in WL: if w[0]==’c’ or w[0]==’C’: print(w)or any other correct relevant code**OR**1. with open( “info.txt”,”r”) as file:

 d=file.read() for x in d: if x.isdigit(): print(x)or any other correct relevant code | (3) |
| 30. |  1 ½ mark for logic, ½ mark for indentation ½ mark for variable declaration, ½ mark for print command A) Inventory=[] def New\_In(Inventory,newdata): Inventory.append(newdata) def Del\_In(Inventory): if len(Inventory)==0: print(“Nothing to POP”) else: Inventory.pop()  def Show\_In(Inventory): for p in range(len(Inventory)-1,-1,-1): print(Inventory[p]) code=input(“Code”) name=input(“Name”) price=input(“Price) L=[code,name,price] New\_In(Inverntory, L) Del\_In(Inventory) Show\_In(Inventory) Or any other correct relevant codeORB) N=””Consonants=[]def Push(x): for p in x: if p not in [‘a’,’A’,’e’,’E’, ‘i’,’I’,’o’,’O’, ‘u’,’U’] : N=p  Consonants.append(N)def Display(): for p in range(len(Inventory)-1,-1,-1): print(Consonants[p])Push(“Welcome to stacks”)Display()Or any other correct relevant code. | (3) |
| 31. |  {'p': 1, 'r': 2, 'o': 1, 'g': 1, 'a': 1, 'm': 1, 's': 1} 3 marks (partial marking may be given)ORerreer 3 marks(partial marking may be given) | (3) |
| **Q No.** | **Section-D( 4x4=16Marks)** | **Marks** |
| 32. | 1. Write the queries for the following:
	1. Select sum(qsold) from wsale where qtr=3;
	2. Select \* from watches order by qty desc;
	3. Select sum(qty) from watches;

 iv) Select wname, max(qsold) from watches , wsale where watches.id=wsale.wid and qtr=1;* 1. **OR**
1. Write the output
	1. Sum(price)

6290

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id | Wname | Price | Type | Qty |
| W01 | High Time | 1200 | Common | 75 |
| W02 | Life line | 1600 | Gents | 150 |
| W03 | Wave | 780 | Common | 240 |

 iii) sum(qty) type 315 Common 610 Gents1. Ladies

 iv)

|  |  |  |
| --- | --- | --- |
| Wname | Price | Qtr |
| High Time | 1200 | 1 |
| Wave | 780 | 3 |

 | (4) |
| 33. | ½ mark correct import statement½ mark for opening file in correct mode½ mark for making reader object½ mark for print statement2 mark for logicimport csvdef READ(): with open(“candidates.csv”, “r”) as csv\_file: reading=csv.reader(csv\_file) for x in reading: if x[2]>75 : print(x)def IDENTIFY(): count=0 with open(“candidates.csv”, “r”) as csv\_file: reading=csv.reader(csv\_file) for x in reading: if x[2]<=75 : count=count+1 print(“number of records less then 75% “ ,count)or any other correct relevant code | (4) |
| 34. |  (I)Select \* from departments where date\_join < ’01-01-2010’; 1. Select d\_name, d\_incharge from departments where d\_incharge like ‘%m%;’
2. Update departments set grant=grant+1200 where d\_no in (‘D99’, ‘D23’)
3. d\_name grant

Primary NullORsum(grant) 34000 |  1 1 1 1 |
| 35. | import mysql\_connectorconnect=mysql.connector.connect(hostname=”localhost”, user=”root”, password=”root”, database=”db”)cur=connect.cursor()def Add\_Vehicle(): Model = input(“Enter model”) Make\_year= input(“Enter year”) Qty= input(“Enter qty”) Price =input(“Enter price”) Q=”insert into Vehicle values(‘” + Model +”’,” + Make\_year + “,” + Qty +”,” + Price +”)” cur.execute(Q) connect.commit() def Search\_vehicle(): model=input(“Enter model to search”)  Q=”select \* from Vehicle where Model=’” + model+ ’” cur.execute(Q) for x in cur: print(x) |  1 mark for connection string ½ mark for variable declaration½ mark for correct function declaration2 marks for logic |
| **Q.No.** | **SECTIONE(2X5=10 Marks)** | **Marks** |
| 36. | * 1. Create table staff ( ID int(4) primary key, Name char(30), Designation char(10) , Birth\_date date, Salary numeric(10,2));
	2. Select \* from staff where designation= ‘Sales Executive’ ;
	3. Update staff set designation =’Assistant’ where salary between 15000 and 17000;
	4. Select sum(\*) from staff where name like “%j”;
 | (2)(1)(1)(1) |
| 37. | 1. Development building with relevant and correct explanation
2. Switch
3. Any correct relevant layout with same placement of the building
4. Correct & Relevant answer as per the layout given .by the student
5. A) Video conferencing

**OR** B) LAN  |  1 1 1 1 1 |