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| **Unit Test II 2023-24**  **ANSWER KEY** | | | |
| **Subject: COMPUTER SC (083)**  **Grade: XII** | | Max. Marks: 50Time: 2 Hrs 30 Mins | |
| **Qno** | **SECTION A** | | Mark |
| **1.** | True | | **1** |
| **2.** | b.3,2 | | **1** |
| **3.** | d. Delete from Students where name like ‘Meena’; | | **1** |
| **4.** | a. 3 | | **1** |
| **5.** | b. Underflow | | **1** |
| **6.** | c. PAN | | **1** |
| **7.** | a. True | | **1** |
| **8.** | Gateway | | **1** |
| **9.** | **b.** Both A and R are true and R is the correct explanation of A. | | **1** |
| **10.** | b. Both A and R are true and R is not correct explanation of A. | | **1** |
|  | SECTION B | |  |
| **11.** | a. i. NIC- Network Interface Card  ii. MAC- Media Access Control  (1/2 mark each)  b. Circuit Switching - First the complete end-to-end transmission path is established between the source and the destination computers. Then the message is transmitted through the path. The main advantage of this technique is guaranteed delivery of the message. Mostly used for voice communication.  (1 mark) | | **2** |
| **12.** | SQL Command to add primary key:  ALTER TABLE Product\_Detail ADD PId INTEGER PRIMARY KEY;  inserting data will be:  INSERT INTO Employee VALUES("T-shirt",35,125,910);  (1 mark each query) | | **2** |
| **13.** | a.  **avg(exp)**  5.66  b.  **min(doj)**  12-01-2006  c.    3 Christina 15-11-2009 Sales F 12  7 habeena 16-08-2011 Sales F 10  d.  **Name DOJ**  Dima 03-05-2016  Danish 11-09-2013  (1/2 mark each) | | **1** |
| **14.** | (1/2 mark each line) | | **1** |
| **15.** | a. Advantage: The network remains operational even if one of the nodes stops working. Disadvantage: The network stops working if the central hub stops working.( Or any other valid advantage or disadvantage. Each carries 1/2 mark)  b. | | **2** |
|  | **SECTION C** | |  |
| **16.** | a.    **1 mark**  **b. ½ mark each** | | **3** |
| **17.** | def displaywords():  fin = open('data.txt','r')  fout=open(‘Newdata.txt’,’w’)  s = f.read()  lst = s.split()  for x in lst:  if len(x)>3:  write(x, end=" ")  fin.close()  fout.close()  (1/2 mark for opening the file in correct modes, 1 mark for correct reading and splitting, 1 mark for loop and condition,1/2 mark for closing both the files) | | **3** |
| **18.** | stack=[ ]  def push(stack, data):  for x in data:  if data[x]>25:  stack.append(x)  def pop(stack):  while stack!=[ ]:  for i in range(-len(stack)-1,0,-1):  print(stack[i])  else:  print(“Stack Empty”)  (1½ mark for push ( ) and 1½ mark for pop() , ½ mark for correct function header and 1 mark for correct logic and statements) | | **3** |
| **19.** | a. The Primary Key should be Productid since it uniquely identifies each row.  b. UPDATE inventory SET stock=stock+10 WHERE company = 'Parley';  c. DELETE FROM inventory WHERE RATING IS NULL; | | **3** |
|  | **SECTION D** | |  |
| **20.** | a. Select ClientName,City from Client where city in(‘Mumbai’,”Delhi’);  b. Select manufacturer,count(\*) from product group by Manufacturer;  c. Select ProductName,Manufacturer,ExpiryDate from product where ExpiryData<=‘2010-12-31’;  d. Select P.P\_ID,C.ClientName,C.City,P.ProductName from Product P,Client C where P.P\_ID=C.C\_CID or P.P\_ID IS NULL;  **(1 mark each)** | | **4** |
| **21.** | import csv  def ADD():  empid=input(“Enter employee ID”)  name=input(“Enter employee name”)  mobile=int(input(“Enter mobile number”))  salary=int(input(“Enter salary”))  data=[empid,name,mobile,salary]  head=[‘EmpID’,’Name’,’Mobile’,’Salary’]  fout=open(‘Record.csv’,’a’,newline=’’)  csvw=csv.writer(fout,delimiter=’,’)  csvw.writerow(head)  csvw.writerow(data)  fout.close()  def COUNT():  count=0  f=open(‘Record.csv’,’r’)  csvr=csv.reader(f,delimiter=’,’)  for data in csvr:  if data[3]>=10000:  count+=1  return count  ( 2 mark each function) | | **4** |
|  | **SECTION E** | |  |
| **22.** | a. Admin Block since it has maximum number of computers.  b. Modem should be placed in the Server building .  c.    d. Switches in all the blocks since the computers need to be connected to the network. Repeaters between Admin and HR block & Admin and Logistics block. The reason being the distance is more than 100m.  e. Optical Fiber cable connection. | | **5** |
| **23.** |  | | **5** |