

KENDRIYA VIDYALAYA SANGATHAN : BHUBANESWAR REGION
TERM – 2 Pre Board Examination
COMPUTER SCIENCE – XII
MARKING SCHEME [SET-1]

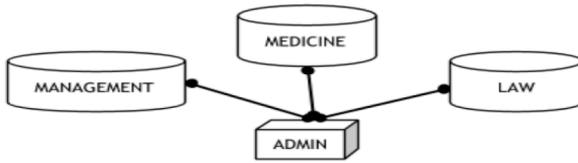
Section A

Q No	No.	Answers	Marks to be allotted						
1.		A stack is a linear data structure that follows the principle of Last In First Out (LIFO). This means the last element inserted inside the stack is removed first. Stack is a linear data structure in which the elements can be added or removed only from one end known as "Top" of the stack. The discipline of Stack is LIFO (Last In First Out) i.e. element inserted last will be removed first. (1 marks for correct definition and 1 marks for correct reasons)	2						
2	(i)	FTP	1						
	(ii)	Code Division Multiple Access Uniform Resource Locator (1/2 marks for each correct full forms)	1						
3		Domain of an attribute is the set of values from which a value may come in a column. E.g. Domain of section field may be (A,B,C,D). (1 marks for correct definition and 1 marks for example)	2						
4		statement 1-mydb.cursor() statement 2-"DROP TABLE STUDENT" (1 marks for each correct statement)	2						
5		a) 20-11-2017, 21-08-2010 b) Sony c) 12-02-2013 17-10-2016 d) 15300 (1/2 marks for each correct output)	2						
6	(i)	Correct difference 01 Mark	1						
	(ii)	<table border="1"> <tr><td>discount</td></tr> <tr><td>1500</td></tr> <tr><td>1250</td></tr> <tr><td>550</td></tr> <tr><td>2500</td></tr> <tr><td>1850</td></tr> </table>	discount	1500	1250	550	2500	1850	1
discount									
1500									
1250									
550									
2500									
1850									
7		a. Degree-5 Cardinality-6 b. Primary Key is TID, It is used to ensure data in the specific column is unique. It is a column cannot have NULL values. OR Candidate key: Attribute / Attribute combinations in a relation that can serve as a primary key. Example: In EMP table: Empno, Ename Alternate Key: A candidate key that is not the primary key is called an alternate key. Example: in EMP table Empno Primary key then Ename will be the alternate key.	2						
Section B									
8		Product={"TV":10000, "MOBILE":4500, "PC":12500, "FURNITURE":5500} stack=[] def PRODPUSH(stack, P): # [1 Mark] for k in Product: # [1/2 Mark]	3						

		<p>if P[k]<6000: # [1/2 Mark] stack.append(k) # [1/2 Mark]</p> <p>PRODPUSH(stack, Product) # [1/2 Mark] print(stack)</p> <p style="text-align: center;">OR</p> <p>M=[2, 10,13,17,25,32,38,44, 56, 60,21, 74, 35,15]</p> <p>stack=[] def NUMPUSH(stack, P): # [1 Mark] for k in M: # [1/2 Mark] if k%5==0: # [1/2 Mark] stack.append(k) # [1/2 Mark] NUMPUSH(stack, M) # [1/2 Mark] print(stack)</p>																
9	(i)	<table border="1"> <thead> <tr> <th>Field</th> <th>Data Type</th> <th>Actual Datatype with length</th> </tr> </thead> <tbody> <tr> <td>PID</td> <td>Numeric length 11</td> <td>int(11)</td> </tr> <tr> <td>ProdName</td> <td>Variable Character length 10</td> <td>varchar(10)</td> </tr> <tr> <td>DateofManufacture</td> <td>Data type</td> <td>date</td> </tr> <tr> <td>Price</td> <td>Floating 7 digits including 2 decimal</td> <td>float(7,2)</td> </tr> </tbody> </table>	Field	Data Type	Actual Datatype with length	PID	Numeric length 11	int(11)	ProdName	Variable Character length 10	varchar(10)	DateofManufacture	Data type	date	Price	Floating 7 digits including 2 decimal	float(7,2)	2
Field	Data Type	Actual Datatype with length																
PID	Numeric length 11	int(11)																
ProdName	Variable Character length 10	varchar(10)																
DateofManufacture	Data type	date																
Price	Floating 7 digits including 2 decimal	float(7,2)																
	ii)	ALTER TABLE Customer MODIFY Address(30);	1															
10		a. CREATE DATABASE Zenith; CREATE TABLE Workshop(Workshopid integer Primary Key,Title Varchar(50), DateWorkshop date, NumSpeakers integer); b. INSERT INTO Workshop(101,"CCT WORKSHOP",'12-03-2019',3); 1 mark for create database 1 mark for create table and 1 mark for insert command)	3															
Section C																		
11		SELECT CNO, CNAME, TRAVELDATE FROM TRAVEL ORDER BY CNO DESC; SELECT CNAME,VEHICLETYPE FROM TRAVEL T, VEHICLE V WHERE T.VCODE=V.VCODE AND VCODE IN('V03','V05'); SELECT CNO, CNAME, TRAVELDATE FROM TRAVEL WHERE TRAVELDATE BETWEEN '13-12-2015' AND '21-03-2016'; SELECT T.VCODE,CNAME,VEHICLETYPE FROM TRAVEL T, VEHICLE V WHERE T.VCODE=V.VCODE AND KM> 100 ; (1 marks for each correct command)	4															
12	(i)	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.	2															
	(ii)	Advantages of using an optical Fiber : i. Faster speed than ethernet. ii. Lower attenuation (Any Two Advantages)	2															
OR																		
		Web Page is a document or a page where there is information. We can see those pages in the browser. Web Page is a single page with information. It can be in any form like texts, images or videos. Whereas the Website is a collection of webpages. The website has its own domain name which is unique throughout the world. Anything can be stored on a website like photos, videos, texts etc . Popular example of online shopping : Amazon,Flipkart etc																

13

i) Admin Block
(1 mark for correct answer)
(ii)



(1 mark for correct answer)
(iii) Modem or Switch or Router
(1 mark for correct answer)
(iv) Ethernet Cable
(1 mark for correct answer)

4