

Roll Number		
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SET A



**INDIAN SCHOOL MUSCAT
SECOND PRE - BOARD EXAMINATION
COMPUTER SCIENCE(Code-083)**

CLASS: XII

TERM 2

Max.Marks: 35

13-04-2022

Time:2 Hrs

MARKING SCHEME			
SET A	QN.NO	VALUE POINTS Section-A Each question carries- 2 marks	MARKS SPLIT UP
	1	A stack is a basic data-structure where insertion and deletion of data takes place at one end called the top of the stack(LIFO) push – Insertion of elements in the stack. pop - Deletion of element from the top of the stack.	1 + 1 = 2
	2	i) XML – eXtensible Markup Language SMTP - Simple Mail Transfer Protocol ii) Wired medium- Telephone Line, Coaxial Cable, Fiber Optic Cable. Wireless medium- Radio waves, Microwave, Infrared wave.	1 + 1 = 2
	3	Primary Key– A set of one or more attribute that can identify a record uniquely in the relation is called Primary Key. Candidate Key- In a table there can be more than one attribute which contains unique values. These columns are known as candidate key as they are the candidate for primary key.	1 + 1 = 2
	4	a) 8 Records b) Tuple	1 + 1 = 2
	5	a) Fl_No No_Flight ----- AM812 3 b) Fl_No Starting ----- IC301 MUMBAI IC302 DELHI c) Fl_No Ending ----- IC301 DELHI IC799 DELHI	½ x 4 = 2

		d) Ending COUNT(*) ----- DELHI 2 MUMBAI 2 BENGALURU 1 KOCHI 1	
	6	i) CREATE DATABASE DEPT ;	1 + 1 = 2
		ii) NULL means missing information. NULL is neither equal to 0 nor space.	
	7	a) Cardinalty – 5 , Degree – 4 b) Drinkcode and Dname can be primary key. The values appearing in the columns Drinkcode and Dname does not have any duplicate values. <p style="text-align: center;">OR</p> a) Drinkcode and Dname are candidate keys. The values appearing in the columns Drinkcode and Dname does not have any duplicate values. b) Drinkcode is the foreign key (Drinkcode is present in the table SOFTDRINK and it is primary key there).	1 + 1 =2
		Section-B Each question carries- 3 marks	
	8	# Question No 8 (first option) M = [92,80,73,77,98,95] def PUSH(S,M): S.append(M) def POP(S): if S!=[]: return S.pop() else: return None ST=[] for k in M: if k> 85: PUSH(ST,k) while True: if ST!=[]: print(POP(ST),end=" ") else: break Sample Output of the code should be: 95 98 92 <p style="text-align: center;">OR</p> N = [12, 13, 34, 45, 10] def PUSH(S,N): S.append(N)	(3) 1 Mark for PUSH () Function. 1 Mark for POP() Function. 1 Mark for correct function calls and displaying the output.

		def POP(S): if S!=[]: return S.pop() else: return None ST=[] for k in N: if k%2==0: PUSH(ST,k) while True: if ST!=[]: print(POP(ST),end=" ") else: break Sample Output of the code should be: 10 34 12	
	9	i) ALTER TABLE CUSTOMER MODIFY ADDRESS VARCHAR(50) ; ii) Constraints are the conditions that can be enforced on the attributes of a relation. The constraints come in play whenever we try to insert, delete or update a record in a relation. <u>DEFAULT</u> constraint is used to specify a default value to a column of a table automatically. This default value will be used when user does not enter any value for that column. e.g. balance decimal(6,2) default 0,	1 1 + 1 = 2
	10	USE EXAM ; CREATE TABLE RESULTS(STU_ID INTEGER Primary Key, FNAME VARCHAR(25) NOT NULL , LNAME VARCHAR(25), EXAM_ID INTEGER , SCORE DECIMAL(10,2)) ;	1 Mark for correctly accessing database. 2 Marks for correctly creating the table.
		Section-C Each question carries- 4 marks	
	11	a) SELECT CARNAME FROM CARDEN WHERE COLOUR= 'SILVER' ; b) SELECT CARNAME, MAKE, CAPACITY FROM CARDEN ORDER BY CAPACITY DESC ; c) SELECT MAX(Charges) FROM CARDEN ; d) SELECT CLNAME, CARNAME FROM CARDEN, CLIENT WHERE CARDEN.CODE = CLIENT.CODE ;	1 +1+1+1= 4

- c) i) Repeater should be placed between Alpha and Gamma buildings as the distance between them is more than 70 m.
ii) Hub/Switch are needed in all the buildings to interconnect the group of cables from different computers in each building.
- d) The most economic way to connect it with a reasonable high speed would be to use radio wave transmission, as they are easy to install, can travel long distances and penetrate buildings easily, so they are widely used for communication, both indoors and outdoors. Radio waves also have the advantage of being omni directional and can travel in all directions from source, so that the transmitter and receiver do not have to be carefully aligned physically.

a) BUS Layout.

Layout(Total Length = 165 m)

