KENDRIYA VIDYALAYA SANGATHAN

BENGALURU REGION

SAMPLE QUESTION PAPER – TERM – II: SESSION 2021-22

CALSS: XI **MAX. MARKS:35**
SUBJECT: INFORMATICS PRACTICES (065) **TIME: 2 HRS**

General Instructions

- The question paper is divided into 3 sections – A, B and C
- Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- Section C, consists of 3 questions(11-13). Each question carries 4 marks.
- Internal choices have been given for question numbers – 1 , 3, 8 and 12

	Section –A **Each question carries 2 marks**	
Q. No	**Question**	**Marks**
Q1	Differentiate between cardinality and degree. OR Differentiate between char and varchar.	2
Q2	Choose DDL, DML among the following: Create, select, update, alter	2
Q3	Database reduces redundancy. Comment OR What do you mean by inconsistency in data	2
Q4	Give two examples of Artificial intelligence	2
Q5	Differentiate between Primary Key and Unique Key	2
Q6	Define NOT NULL constraint with example	2
Q7	Which command is used to a) Display the list of tables in a database b) Display the structure of a table c) To change the database d) To display records of a table	2

<table>
<tr><td></td><td>SECTION – B
Each question carries 3 marks</td><td></td></tr>
<tr><td>Q8</td><td>What is Big data? Write its characteristics.
OR
Write short note on various types of services of cloud computing.</td><td>3</td></tr>
<tr><td>Q9</td><td>A departmental store MegaStore is considering to maintain their inventory using SQL to store the data. As a database administrator Reena has decided that:

• Name of the database – megastore
• Name of the table – STORE
• The attributes of STORE are as follows:
➢ Itemcode – numeric
➢ Itemname – varchar of size 30
➢ Scode – numeric
➢ Quantity – numeric

Table : STORE
<table>
<tr><th>Itemcode</th><th>Itemname</th><th>Scode</th><th>Quantity</th></tr>
<tr><td>11001</td><td>Eraser small</td><td>23</td><td>10</td></tr>
<tr><td>11003</td><td>Sharpener Classic</td><td>22</td><td>20</td></tr>
<tr><td>11005</td><td>Eraser big</td><td>23</td><td>10</td></tr>
<tr><td>11002</td><td>Gel Pen Classic</td><td>24</td><td>20</td></tr>
<tr><td>11004</td><td>Gel Pen Premium</td><td>24</td><td>10</td></tr>
<tr><td>11006</td><td>Ball Pen</td><td>21</td><td>10</td></tr>
</table>
a) Identify the best suitable attribute to be declared as Primary Key
b) What is the cardinality and degree of table STORE
c) Insert the following data into the attributes Itemcode,Itemname,Scode,Quantity respectively in the given table
Itemcode =11007, Itemname=”Scissor”, Scode=25, quantity=15</td><td>3</td></tr>
<tr><td>Q10</td><td>Write a command to create table named STUDENT with following attributes and constraints:
<table>
<tr><th>Attribute</th><th>Datatype(Size)</th><th>Constraint</th></tr>
<tr><td>RollNo</td><td>Integer(5)</td><td>Primary Key</td></tr>
<tr><td>Name</td><td>Varchar(30)</td><td>NOT NULL</td></tr>
<tr><td>Adhaar</td><td>Varchar(12)</td><td>UNIQUE</td></tr>
<tr><td>Address</td><td>Varchar(50)</td><td>Default value “Mumbai”</td></tr>
</table></td><td>3</td></tr>
</table>

SECTION – C
Each question carries 4 marks

Q11 Write SQL commands for the following on the basis of table SPORTS: 4

Table : SPORTS

StudentNo	Class	Name	Game1	Grade1	Game2	Grade2
10	7	Sammer	Cricket	B	Swimming	A
11	8	Sujit	Tennis	A	Skating	C
12	7	Kamal	Swimming	B	Football	B
13	7	Venna	Tennis	C	Tennis	A
14	9	Archana	Basketball	A	Cricket	A
15	10	Arpit	Cricket	A	Athletics	C

(i) Display the names of the students who have grade 'C' in either Game1 or Game2 or both

(ii) Display the names of the students who have same game for both Game1 and Game2

(iii) Display the games taken up by the students, whose name starts with 'A'

(iv) Display the details of students belonging to class 7 in descending order of their names.

Q12 Consider the table Pet and answer the following queries: 4

Table : Pet

Name	Owner	Species	Sex	Birth	Death
Fluffy	Harold	Cat	F	1993-02-04	NULL
Claws	Gwen	Cat	M	1994-03-17	NULL
Buffy	Harold	Dog	F	1989-05-13	NULL
Fang	Benny	Dog	M	1990-08-27	NULL
Bowser	Diane	Dog	M	1979-08-31	1995-07-29
Chirpy	Gwen	Bird	F	1998-09-11	Null
Whistler	Gwen	Bird	Null	1997-12-09	Null
Slim	Benny	Snake	M	1996-04-29	Null
Puffball	Diane	Hamster	F	1999-03-30	Null

(i) SELECT * FROM pet WHERE owner LIKE "%e%";

(ii) SELECT name,sex FROM pet WHERE birth>='1995-01-01';

(iii) SELECT DISTINCT(species) FROM pet where sex='M';

(iv) SELECT * FROM pet where birth between '1989-05-13' and '1998-09-11' and sex='F';

OR

Consider the table given below and give the output of the queries (i) to (iv)

Table: Teacher

T_ID	Name	Age	Department	Date_of_join	Salary	Gender
1	Jugal	34	Computer Sc	10/01/2017	12000	M
2	Sharmila	31	History	24/03/2008	20000	F
3	Sandeep	32	Mathematics	12/12/2016	30000	M
4	Sangeeta	35	History	1/07/2015	40000	F
5	Rakesh	42	Mathematics	5/09/2007	25000	M
6	Shyam	50	History	27/06/2008	30000	M
7	Shiv Om	44	Computer Sc	25/02/2017	21000	M
8	Shalakha	33	Mathematics	31/07/2018	30000	F

(i) Select name,department,salary from Teacher where salary>20000;
(ii) Select * from teacher where gender=”M”;
(iii) Select * from teacher where age between 35 and 45;
(iv) Select T_ID,name,department from teacher;

Q13 Consider the table EMPLOYEE and its structure given below and perform the following on the same: 4

Structure of table Employee:

Name of Column	ID	First_Name	Last_Name	User_ID	Salary
Type	Number(4)	Varchar(30)	Varcher(30)	Varchar(10)	Number(9,2)

Table : Employee

ID	First_Name	Last_Name	User_ID	Salary
1	Dim	Joseph	jdim	5000
2	Jagannath	Mishra	jnmishra	4000
3	Siddharth	Mishra	smishra	8000
4	Shankar	Giri	sgiri	7000
5	Gautam	Buddha	bgautam	2000

(i) Add column address of datatype varchar and size 50 to the table Employee.
(ii) Modify the last name of Employee with ID = 3 to Gautam
(iii) Increase the salary by 1000 of those employees whose salary is less than 5000
(iv) Delete the employee record having First_Name as Siddharth