

KENDRIYA VIDYALAYA SANGATHAN, RANCHI REGION

SAMPLE PAPER

Term – II (Session Ending Examination 2021-22)

Subject: Informatics Practices (Code-065)

Class–XI

Maximum Marks: 35

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	Part No.	Question	Marks
1.		Kunal wants to create a table to store the personal details of students. Suggest the possible structure of the table. He also wants to identify a particular record. Suggest suitable column in the table for it and properly explain usage of that constraint. OR i) Which command is used to Open a Database? ii) Which command is used to remove the Database?	(2)
2.	(i)	Which is the DDL and which is the DML Command? ALTER TABLE , INSERT INTO	(1)
	(ii)	Write the name of any two DBMS software.	(1)
3.		i) What is NULL value. Explain ii) Anu has written the query as follows. update table student set mark=78 where name="p%"; He didn't got the query OK message. Help him to correct the query.	(2)

		OR																									
		Define the terms Candidate Key and Alternate Key with suitable example.																									
4.		What is the difference between char and varchar data type in SQL? Explain with example.	(2)																								
5.	(i)	What is the command to create a database?	(1)																								
	(ii)	Which command is used to show the list of tables in a database?	(1)																								
6.		What is the difference between UNIQUE and PRIMARY KEY constraint? Explain with example.	(2)																								
7.		What is the difference between Artificial Intelligence and Machine learning?	(2)																								
		Section – B Each question carries 3 marks																									
8.	(i)	Write SQL command to create a table EMPLOYEE with the following Specification.	(2)																								
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Field Name</th> <th style="width: 25%;">Data type</th> <th style="width: 25%;">Size</th> <th style="width: 25%;">Constraint</th> </tr> </thead> <tbody> <tr> <td>Empid</td> <td>INT</td> <td></td> <td>PRIMARY KEY</td> </tr> <tr> <td>ENAME</td> <td>VARCHAR</td> <td>15</td> <td>NOT NULL</td> </tr> <tr> <td>Deptid</td> <td>VARCHAR</td> <td>05</td> <td>NOT NULL</td> </tr> <tr> <td>Salary</td> <td>INT</td> <td></td> <td></td> </tr> <tr> <td>Designation</td> <td>VARCHAR</td> <td>10</td> <td></td> </tr> </tbody> </table>	Field Name	Data type	Size	Constraint	Empid	INT		PRIMARY KEY	ENAME	VARCHAR	15	NOT NULL	Deptid	VARCHAR	05	NOT NULL	Salary	INT			Designation	VARCHAR	10		
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	(ii)	Write a SQL query to Add a new column Location with Data type Varchar and size 20 in the above table.	(1)																								
		OR																									
	(i)	Write SQL command to create a table SCHOOL with the following Specification.																									
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		ROLL	INT		PRIMARY KEY		
		SNAME	VARCHAR	15	NOT NULL		
		AGE	INT		NOT NULL		
		DOB	DATE				
		FEES	FLOAT				
	(ii)	Assuming that the above table SCHOOL contains certain number of records, write a SQL query to modify the AGE as 25 whose SNAME starts with the letter 'k'.					
9.	(i)	Write a SQL query to modify the column ROLL as ROLLNO to the above table SCHOOL .					(1)
	(ii)	Write SQL query to remove those records whose age is less than 10 and Fees >2000 in the above table SCHOOL .					(1)
	(iii)	Write SQL query to increase the fees of those students whose DOB date is more than '02-02-2022' by Rs. 200 to the above table SCHOOL .					(1)
10.	(i)	What is NLP?					(1)
	(ii)	What is Robotics? How are Robotics useful?					(2)
		Section – C Each question carries 4 marks					
11.	(i)	What is the difference between SQL and MYSQL?					(2)
	(ii)	Write a SQL query to display the Name of all those employee whose ENAME Field contains 4 th character as 'S' from the table EMPLOYEE.					(1)
	(iii)	Write a SQL query to display records in ascending order of their Salary from the table EMPLOYEE. Field Name SALARY.					(1)
12.	(i)	What is the difference between ALTER and UPDATE command in SQL. Explain with example.					(2)
	(ii)	Consider the following tables STATIONERY and write SQL					

query for the given questions:-

S_ID	STNAME	COMPANY	PRICE
DP01	DOT PEN	ABC	20
PL02	PENCIL	NULL	16
ER05	ERASER	XYZ	17
PL01	PENCIL	CAM	15
GP02	GEL PEN	ABC	25

a) Display details of those Items whose company name is null.

b) Display details of those items whose Item name contains character 'E' any where in the STNAME.

(1)

(1)

OR

(i) What is the difference between DELETE and DROP command in SQL. Explain with example.

(ii) a) Display details of those Items from STATIONARY table where price is in the range 20 to 25.

b) Delete the Column name company from the table STATIONARY .

13. Consider the table **MARKS** and write SQL query for the question **i to ii** and find output for the given SQL query from **iii to vi**.

SNAME	STIPEND	STREAM	AVGMRK	GRADE	CLASS
Karan	400	Medical	78	B	12A
Divakar	500	Comm	89	A	11C
Mohan	800	Comm	56	D	12B
Aman	200	Science	99	A	12C
Kewat	700	Humani	77	C	12A
Raghav	300	Science	90	A	11A
Vikas	600	Medical	84	B	11B

i) Display the details of all Science students.

ii) Display the details of students who are in class 12 sorted by stipend.

iii) SELECT SNAME, GRADE FROM MARKS WHERE SNAME LIKE "%S" ;

iv) UPDATE MARKS SET STIPEND = STIPEND*2 WHERE

(1)

(1)

(1/2)

	GRADE = 'C' ;	(1/2)
	v) SELECT STREAM, AVGMARK FROM MARKS WHERE AVGMARK > 90 ;	(1/2)
	vi) SELECT DISTINCT(STREAM) FROM MARKS ;	(1/2)