

ANNUAL EXAM - 2021-22

STD:XI- IP

INSTRUCTIONS:

1. All Questions are compulsory
2. Programming Language: SQL
3. Paper is divided into 2 sections i.e TYPE A, TYPE B
4. Type A contains Conceptual Based Questions of 20 Marks
5. Type B contains Application Based Questions of 15 Marks

TYPE A (Conceptual Based Questions) 20 Marks

- Q1. What do you mean by Candidate Key? 1
- Q2. Write a query to display names of employee whose name contains 'A' as third alphabet. (Table: Empl, Columns: Name) 1
- Q3. Define the following: 2
- i) Virtual Reality?
 - ii) WoT
- Q4. What do you mean by middleware? What is the role in Grid Computing? 2
- Q5. Five friends plan to try a start-up. However, they have a limited budget and limited computer infrastructure. How can they avail the benefits of cloud services to launch their start-up? 1
- Q6. Write a query to display the name, job title, and salary of Employee who don't have manager. (Table: Empl , Columns: name, job_title, salary) 1
- Q7. Write a query on the customer table whose output will exclude all customer with a rating <=100 unless they are located in Shimla. (Table: Customer, Columns: City, rating) 1
- Q8. What do you mean by Blockchain Technology? 1
- Q9. How is IAAS different from PAAS? 2
- Q10. Create the table Employee based on the following table instance chart 2

Column Name	ID	First_Name	Last_Name	Dept_Id
Data Type	Integer	Varchar	Varchar	Integer
Length	8	25	25	8
Constraint type	Primary key Not null			Not null

- Q11. Write a query to add a constraint (NN Grade) in table Employee that declares column Grade Not Null (Table: Employee, Column: Grade) 1
- Q12. Write a query to drop the column CustomerIncomeGroup from table Customer. 1
- Q13. Write a query to add one column Email of data type varchar and size 30 to the table Customer 1
- Q14. Give any three differences between Alter and Update command 3

TYPE B (Application Based Questions) 15 Marks

Q15. Table: Club

3

Coach_id	Coach_Name	Age	Sports	DateofApp	Pay	Sex
1	KUKREJA	35	KARATE	27/03/1996	1000	M
2	RAVINA	34	KARATE	20/01/1998	1200	F
3	KARAN	34	SQUASH	19/02/1998	2000	M
4	TARUN	33	BASKETBALL	01/01/1998	1500	M
5	ZUBIN	36	SWIMMING	24/02/1998	800	M

Write a query for the following

- i) To show all information about the swimming coaches in the club
- ii) To list names of all coaches with their date of appointment (DATEofApp) in descending order
- iii) To display a report showing coachname, pay,age and bonus (15% of pay) for all the coaches.

Q16. Table: Student

4

No	Name	Stipend	Stream	AvgMark	Grade	Class
1	Karan	400.00	Medical	78.5	B	12B
2	Divakar	450.00	Commerce	89.2	A	11C
3	Divya	300.00	Commerce	68.6	C	12C
4	Arun	350.00	Humanities	73.1	B	12C
5	Sabina	500.00	Nonmedical	90.6	A	11A
6	John	400.00	Medical	75.4	B	12B
7	Robert	250.00	Humanities	64.4	C	11A
8	Rubina	450.00	Medical	75.4	B	12B

- i) Select all the nonmedical stream students from table STUDENT
- ii) List the names of those students who are in class 12 sorted by stipend
- iii) List all students sorted by AvgMark in descending order
- iv) Display a report, listing name, stipend, stream and amount of stipend received in a year assuming that the stipend is paid every month.

Q17. Write a query to display the employee name, salary of those employee who don't have salary in the range of 2500 to 400 (Table: Empl, Columns: empl_name,salary)

1

Q18. Write a query to increase salary of employee records by 10%

1

Q19. An organization wants to create a tables EMPLOYEE,DEPENDENT to maintain following details about its employees and their dependent.

3

EMPLOYEE (AadharNumber, Name, Address, Department, EmployeeID)

DEPENDENT (EmployeeId, DependentName, Relationship)

- i) Name the attributes of Employee, which can be used as candidate keys.
- ii) The company wants to retrieve this details
- iii) What is the degree of Employee and Dependant

Q20. Match the following:

3

Column A	Column B
i) You got a remainder to take medicine	i) Home Automation
ii) You got a SMS alert that you forgot to lock the door	ii) Smart Health
iii) You turned off your LED TV from your wrist watch.	iii) Smart Wearable