O. P. JINDAL SCHOOL, SAVITRI NAGAR
Half Yearly Examination (2025 – 2026)

Class: XII **MM: 70**

Subject: Informatics Practices (065) **Time: 3 Hrs.**

(Fifteen Minutes Extra will be given for reading the Question Paper.)

General Instructions:

- ➢ **This question Paper contains two Parts A and B.**
- ➢ **Part – A (Section – I) Multiple Choice Questions, consists of 10 questions. Each question carries 01 mark.**
- ➢ **Part – A (Section – II) Very Short Answer Type Questions, consists of 10 questions. Each question carries 01 mark.**
- ➢ **Part – B (Section – I) Short Answer Type Questions, consists of 10 questions. Each question carries 02 marks.**
- ➢ **Part – B (Section – II) Long Answer Type Questions, consists of 05 questions. Each question carries 03 marks.**
- ➢ **Part – B (Section – III) Very Long Answer Type Questions, consists of 04 questions. Each question carries 05 marks.**

PART – A
SECTION – I (Multiple Choice Questions)

Q1. Which of the following is a DDL command?
   a) SELECT b) ALTER c) INSERT d) UPDATE

Q2. Which of the following types of table constraints will prevent the entry of duplicate rows?
   a) Unique b) Distinct c) Primary key d) NULL

Q3. Which SQL function is used to count the number of rows in a SQL query?
   a) COUNT ( ) b) NUMBER ( ) c) SUM ( ) d) COUNT (*)

Q4. Which of the following is not an aggregate function?
   a) AVG b) SUM c) WITH d) MIN

Q5. Hub is a
   a) Broadcast device b) Unicast device
   c) Multicast device d) None of these

Q6. Television cable network is an example of
   a) LAN b) WAN c) MAN d) internet

Q7. Which of the following topologies needs least cable lengths?
   a) star b) tree c) bus d) none of these

Q8. The device that can operate in place of a hub is a :
   a) switch b) bridge c) router d) gateway

Q9. Which network topology requires a central controller or a hub?
   a) star   b) bus   c) mesh   d) tree

Q10. Which network topology requires a multipoint connection on a single cable?
   a) star   b) bus   c) mesh   d) tree

PART – A
SECTION – II (Very Short Answer Type Questions)

Q11. Write the full form of RDBMS.
Q12. What is Phishing?
Q13. Name any two aggregate function used in SQL?
Q14. Which SQL aggregate function is used to count all records of a table?
Q15. What is Spyware?
Q16. What is relational data model?
Q17. What are Candidate keys?
Q18. Write the advantages of Adware?
Q19. What is Database isolation?
Q20. What is PC Intrusion?

PART – B
SECTION – I (Short Answer Type Questions)

Q21. Write a query to create a table employee with some user-defined fields.
Q22. Differentiate between Digital Certificate and Digital Signature.
Q23. What is the difference between a WHERE clause and a HAVING clause in of SQL SELECT statement?
Q24. Differentiate between Hacker and Cracker.
Q25. Write a query to display the employer's name, salary and current date.
Q26. Write a query to insert records to the table employee created above.
Q27. What do you understand by identity theft?
Q28. Write a query to display the employee name with all other letters in lower case and length of name string.
Q29. What is the need for secure passwords?
Q30. Write a query to add a primary key on the column supplier_no belonging to the table supplier_master.

PART – B
SECTION – II (Long Answer Type Questions)

Q31. Differentiate between DML and DCL commands.
Q32. Write a query to display name, job, and salary and hiredate of employees who are hired between May 20, 1990, and December 31, 1991. Order the query in ascending order of Hiredate. (Table Empl).
Q33. What is the significance of ORDER BY clause in a SQL query?
Q34. What is SQL? What are different categories of commands available in SQL?
Q35. Explain some basic MySQL elements?

PART – B
SECTION – III (Very Long Answer Type Questions) (Any Three)

Q36. What is Network Topology? Why it is needed? Mention advantages of it.
Q37. What is the difference between Hub, Switch and Router?
Q38. What are different types of networking / internetworking devices? Explain.
Q39. What are different types of networks? What is the geographical scope of LAN, MAN and WAN?