O. P. JINDAL SCHOOL, SAVITRI NAGAR

Half Yearly Examination (2026–2027)

Class: XII **MM: 50**

Subject: Informatics Practices (065) **Time: 2 Hrs.**

General Instructions:

- **Section – A Multiple Choice Questions, consists of 10 questions. Each question carries 01 mark.**
- **Section – B Very Short Answer Type Questions, consists of 09 questions. Each question carries 02 marks. Attempt Any Seven Questions.**
- **Section – C Short Answer Type Questions, consists of 04 questions. Each question carries 03 marks.**
- **Section – D Long Answer Type Questions, consists of 01 question. Each question carries 04 marks.**
- **Section – E Very Long Answer Type Questions, consists of 03 questions. Each question carries 05 marks. Attempt Any Two Questions.**

SECTION–A

Q1. Which of the following is a DDL command?

a) SELECT b) ALTER c) INSERT d) UPDATE

Q2. Which of the following keywords will you use in the following query to display the unique values of the column dept_name

Select _____ dept_name from company;

a) All b) From c) Distinct d) Name

Q3. Which of the following is not a text function?

a) TRIM ( ) b) TRUNCATE ( ) c) LEFT ( ) d) MID ( )

Q4. Which of the following is correct aggregate function in SQL?

a) AVERAGE ( )b) MAX ( ) c) COUNT ( ) d) TOTAL ( )

Q5. Switch is a

a) Broadcast device b) Unicast devices

c) Multicast device d) None of these

Q6. The device that can operate in place of a hub is a

a) Switch b) Bridge c) Router d) Gateway

Q7. A repeater takes a weak and corrupted signal and _____ it.

a) Amplifies b) Regenerate c) Resembles d) Reroutes

Q8. URL stands for

a) Universal Resource Locator b) Uniform Resource Location

c) Uniform Resource Locator d) None of these

Q9. Which of these is not a part of URL?

a) IP address b) Port number c) Domain name d) None of these

Q10. _____ operating system comes under FOSS.

a) Windows b) Ubuntu c) Mac d) Oracle

SECTION–B

Q11. What is "data type" in My SQL?

Q12. What is function of primary key?

Q13. Write a query to concatenate name and aggregate for students having age as 14 or 16.

Q14. Write a query to display the employee name with all other letters in lower case and length of name string.

Q15. Predict the output of the following queries:

i) SELECT ROUND(29.21), ROUND(32.76);

ii) SELECT ROUND(29.21, 1), ROUND(32.76, 1);

Q16. What is gateway? What does it do?

Q17. What are repeaters and routers?

Q18. What is the role of a switch in a network?

Q19. What are two types of Modems?

SECTION–C

Q20. What is malwares? What type of damages can they cause to your computer?

Q21. 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).

Q22. What is Network? Explain different types of networks.

Q23. What are the threats to digital properties?

SECTION–D

Q24. What are the advantages and disadvantages of star topology?

OR

Write a query to display the sum, average, highest and lowest salary of the employees.

SECTION–E

Q25. Differentiate between CHAR and VARCHAR data type.

Q26. What is the difference between Hub, Switch and Router?

Q27. Internet security is a major issue for many people. The following is a list of five typical security issues:

- Pharming
- Phishing
- Spyware
- Viruses

For each one, describe the security issue and suggest a way for protecting against it.