M.M.: 50 CLASS: XII SUBJECT: INFORMATICS PRACTICES TIME: 1.00HRS.

> Section A 1 mark each

1.	Which of the	e following SQL statement	s is used to retriev	ve rows from two table	S
	where there	is a matching condition?			
	a) IINION	L) INTEDERCT	a) IOIN	4) DIOTINOT	

a) UNION

b) INTERSECT

c) JOIN

d) DISTINCT

Answer: c) JOIN

2. What type of join retrieves all rows from both tables, even if there is no match between them?

a) INNER JOIN

b) FULL OUTER JOIN

c) LEFT JOIN

d) CROSS JOIN

Answer: b) FULL OUTER JOIN

3. If you want to retrieve only matching rows from two tables, which join will you use?

a) LEFT JOIN

b) FULL OUTER JOIN

c) INNER JOIN

d) RIGHT JOIN

Answer: c) INNER JOIN

4. Which of the following joins retrieves all records from the left table and matching records from the right table?

a) LEFT OUTER JOIN

b) INNER JOIN c) RIGHT OUTER JOIN d) FULL OUTER JOIN

Answer: a) LEFT OUTER JOIN

5. Consider two tables Students and Courses. Which SQL clause will retrieve all combinations of rows from both tables?

a) CROSS JOIN

b) INNER JOIN

c) NATURAL JOIN

d) UNION

Answer: a) CROSS JOIN

6. What will the query SELECT * FROM A NATURAL JOIN B do?

a) Returns all combinations of rows from A and B.

- b) Returns rows with common columns and identical values.
- c) Returns rows from A only.
- d) Returns rows from B only.

Answer: b) Returns rows with common columns and identical values.

7. What does an ON clause specify in a SQL join?

a) Conditions for joining tables

b) Rows to delete from a table

c) A sorting order for a query

d) Columns to select

Answer: a) Conditions for joining tables

8. Which join will include unmatched rows from the right table and NULLs in nonmatching columns of the left table?

a) LEFT JOIN

b) RIGHT JOIN

c) INNER JOIN

d) FULL OUTER JOIN

Answer: b) RIGHT JOIN

9. Given two tables A and B, a FULL OUTER JOIN will return rows where:

- a) A and B match only.
- b) A matches B or A does not match B.
- c) Only unmatched rows from both A and B.
- d) None of the above.

Answer: b) A matches B or A does not match B.

10. Which SOL keyword is used to combine rows from two or more tables based on a related column?

a) WHERE

b) JOIN

c) GROUP BY

d) ORDER BY

Answer: b) JOIN

11. Which set operation combines the results of two SQL queries and eliminates duplicate rows?

a) UNION

b) UNION ALL

c) INTERSECT

d) EXCEPT

Answer: a) UNION

12. What is the difference between UNION and UNION ALL in SQL?

- a) UNION removes duplicate rows; UNION ALL includes duplicates.
- b) UNION includes unmatched rows; UNION ALL excludes them.
- c) UNION returns rows sorted; UNION ALL does not.

d) UNION combines columns; UNI Answer: a) UNION removes duplic			des duplicates.			
13. Which set operation returns on a) UNION b) INTERSECT Answer: b) INTERSECT	•	resent in	d) UNION ALL			
14. Which SQL set operation returns rows from the first query that are not present in						
the second query? a) INTERSECT b) UNION Answer: c) EXCEPT	c) EX	СЕРТ	d) JOIN			
15. Consider two tables A and B. What does the query SELECT * FROM A UNION ALL SELECT * FROM B do? a) Returns only matching rows between A and B. b) Returns all rows from both A and B, including duplicates. c) Returns rows from A that are not in B. d) Returns rows common to both A and B. Answer: b) Returns all rows from both A and B, including duplicates.						
A) A collection of hardware devices connected without software B) A system of interconnected computers that share resources C) A single computer system running multiple applications D) A standalone device used for processing data Answer: B						
17. Which of the following is		_				
A) LAN B) WAN Answer: D	C) CAN		O) HTML			
18. What is the full form of I	LAN?					
A) Local Area NetworkC) Limited Area NetworkAnswer: A	B) Linear Access N					
19. Which device is used to	connect multiple	networks	s together?			
A) Switch B) Hub	C) Router	D) Repe	ater			
Answer: C 20. Which topology uses a si	ingle cable to can	neet all t	he devices in a network?			
A) Star topology B) Bus topology Answer: B	_					
 Which of the following is A) Faster processing speed in star C) Eliminates hardware costs Answer: B What does HTTP stand for 	ndalone systems D) Re	B) Easy	_			
A) Hyper Transfer Protocol	B) Hyper Te	xt Transfe	er Protocol			
C) High Text Transmission Protoc			nission Protocol			
Answer: B	1 0	TTT- 1 A	N 4 1 (TT A N 1)			
A) The Internet C) Bluetooth connection between	B) A		a Network (WAN)? ocal network			
Answer: A 24. What is the main function A) To connect devices within a new B) To convert data into analog sign C) To amplify weak signals D) To provide internet connectivity. Answer: A 25. Which protocol is common and the protocol is c	twork and forward mals y only used for ema	data to th	ne correct destination			
A) FTP B) SMTP Answer: B	C) HTTP	D) DHC	P			

26. What is the full form of URL?								
a) Universal Resource Locator	b) Uniform Resource Locator							
c) Unified Resource Locator	d) Uniform Reference Link							
Answer: b) Uniform Resource Locato								
27. Which of the following is NOT								
a) Mozilla Firefox b) Google Chi	rome c) Microsoft Word d) Safari							
Answer: c) Microsoft Word								
28. What is the primary purpose of a search engine?								
a) To display advertisementsb) To store files on the web								
c) To search for information on the ir	nternet							
d) To create web pages								
Answer: c) To search for information	on the internet							
29. Which protocol is used to tran-	sfer files over the Internet?							
a) FTP b) HTTP c) SMT	P d) POP							
Answer: a) FTP								
30. What does WWW stand for?								
a) World Wide Web b) Wide World	d Web c) Web World Wide d) Wide Web World							
Answer: a) World Wide Web								
31. Which of the following is an ex	<u>-</u>							
,	c) FTP d) DNS							
Answer: b) SMTP								
32. What does the term "Hyperlin!	t" mean in web technology?							
a) A file that stores website data								
b) A clickable link that redirects to a c) A software used to access the inter-								
d) A protocol for transferring data	net							
Answer: b) A clickable link that redi	rects to another location							
•	ample of a top-level domain (TLD)?							
a) .html b) .org	c) /index d) www							
Answer: b) .org								
34. The unique address of a websit	e is called its							
a) Domain Name b) IP Address	c) Protocol d) Browser							
Answer: a) Domain Name								
35. Which technology is used to de								
a) JavaScript b) Python c) HTM	IL d) SQL							
Answer: c) HTML								
36. What does digital divide refer to?								
a) Difference between developed and une								
b) Gap between individuals with access								
c) Difference in knowledge between stud								
d) Disparity in income levels among citiz Answer: b) Gap between individuals with	ens h access to digital technology and those without							
· -	ple of a negative impact of social media?							
_	b) Spread of misinformation							
, -	d) Increased global connectivity							
Answer: b) Spread of misinformation	a) mercuscu giosai connectivity							
, -	duals' data from unauthorized access?							
a) Information Technology Act, 2000	b) Consumer Protection Act, 2019							
c) Right to Education Act, 2009	d) Cybersecurity Act, 2022							
Answer: a) Information Technology Act,	, ,							
39. What is cyberbullying?								

- a) Using the internet to educate people
- b) Using technology to harass, threaten, or humiliate someone
- c) A way of teaching children about technology
- d) Posting positive comments online

Answer: b) Using technology to harass, threaten, or humiliate someone

40. Which of the following is an example of e-waste?

a) Plastic bags b) Used smartphones c) Paper and cardboard d) Old clothes

Answer: b) Used smartphones

41. What does net neutrality ensure?

- a) Equal access to the internet for all users without discrimination
- b) Increased internet speeds for certain users
- c) Government control over internet services
- d) Restriction on social media usage

Answer: a) Equal access to the internet for all users without discrimination

42. What is the primary goal of digital literacy?

- a) To create new software
- b) To teach people how to use digital technology effectively
- c) To improve programming skills
- d) To reduce the cost of internet services

Answer: b) To teach people how to use digital technology effectively

43. Which of the following is a key concern with Artificial Intelligence (AI)?

a) High efficiency b) Reduced human errors c) Job displacement d) Increased accuracy

Answer: c) Job displacement

44. What is a potential solution to reduce the digital divide?

- a) Increase the cost of internet access
- b) Provide affordable internet and digital devices
- c) Limit the use of technology in rural areas
- d) Ban social media platforms

Answer: b) Provide affordable internet and digital devices

45. What is the primary reason for increasing cybercrimes globally?

- a) Improved internet infrastructure
- b) Lack of cybersecurity awareness
- c) High-quality digital literacy programs
- d) Decrease in technological advancements

Answer: b) Lack of cybersecurity awareness

46. What does Intellectual Property primarily protect?

A. Tangible assets like buildings and vehicles

B. Intangible creations of the mind C. Natural resources D. Physical goods

Answer: B

47. Which of the following is NOT a type of Intellectual Property?

A. Copyright B. Trademark C. Patent D. Inventory

Answer: D

48. What does a patent protect?

A. Brand logos B. Artistic and literary works C. Inventions and processes D. Confidential information

Answer: C

49. For how long does copyright protection typically last in India?

A. 20 years from creation

B. 60 years from the creator's death

C. 10 years from registration

D. 70 years from the creator's death

Answer: B

50. A trademark primarily protects which of the following?

A. A company's goodwill B. Symbols, logos, and brand names

C. Scientific discoveries D. Government data Answer: B