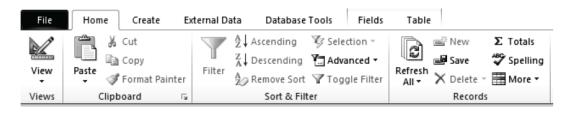
Page 1 of 2	8 / 10 8 3	IN UNIVERSITY IATION BOAR		Total Time 3 hours Total Marks: 75			
Class: XI Time Allowed: 20 minutes Q1: Note: Attempt <u>ALL</u> questions f							
 This is an example of system sof A. MS Excel The process of converting digita A. Modulation 	B. MS Word	C. Operating system s called: C. Synchronization	D. Basic D. Transformation				
 3. This is not a computer virus: A. Trojan horse 4. In topology, all the nodes in the A. Mesh 	B. Time bomb	C. Avast	D. Worn D. Ring				
 5. DPI stand for A. Dot per inch 6. A bar code reader is an example 	B. Decimal per inch of a\an	C. Digital per inch	D. Data per inch				
A. Processing device 7. The internal process of stating up A. Booting 8. Hardware and software combina	B. Self-start tion used for connecting size		D. output device D. Start up				
A. Router 9. This technology is used to in cor A. Mechanical 10. The set of rules to send and rec	B. Electrical	C. Bridge C. Electromagnetic	D. Switch D. Laser				
A. Register 11. The peripheral devices are attac A. Sockets 12. This is the physical part over w	B. Connector	C. Bus h: C. Ports	D. Ethernet D. Plugs				
A. Compiler 13. This virus replicates itself: A. Worm	B. Protocol B. Bug	C. Medium C. Vaccine	D. Operating system D. Bomb				
14. A hybrid computer is a/an:A. Digital computer15. This software resides permanerA. Freeware	B. Analogue computerntly in the memory chip:B. Shareware	C. Both of these C. Firmware	D. None of these D. Spyware				

(Practical based Assessment) (PBA)

Note: Attempt <u>ALL</u> questions. <u>Q16</u> carries <u>ONE</u> mark, all others carry <u>TWO</u> marks each. Use the following picture to answer **<u>Q16-21</u>**



16. Which tab in the MS Access toolbar is selected in this image?

A. Create B. File C. Home

17. You need to organize a table in MS Access to display records in alphabetical order based on a "Last Name" field. Which steps would you follow using the options available in this toolbar?

A. Select the field, then click "Filter" followed by "Ascending."

B. Click "New" to create a new table and then enter records alphabetically.

C. Use "Format Painter" to copy the formatting and select "Save."

D. Select the "Last Name" field, then click "Ascending" in the Sort & Filter group.

18. Imagine you applied multiple filters in an MS Access database but want to remove them to view all records. Which option would be most efficient in this scenario?

- A. Click on "Toggle Filter" to remove any active filters.
- C. Click "Spelling" to reset filters.

B. Use "New" to create a fresh table without filters.

D. Database Tools

D. Use "Advanced" to create new filtering rules.

19. You want to add a total row to calculate the sum of values in a numerical field within an MS Access table. Which combination of options would you use?

A. Click "Save" and then "Filter" to calculate totals.

- B. Use "Totals" in the Records group to add a total row.
- C. Click "Advanced" under Sort & Filter and select "Total."

B. Refresh All

D. Use "View" followed by "Ascending" to display totals.

20. After entering new data into a table, you notice that the view is not updated with the latest records. Which button would best refresh the data to display current records?

A. Save

C. Toggle Filter

D. Sort & Filter

Marks: 25

Page 2 of 2		Total Time 3 hours Total Marks: 75							
21. A databas	e admini	strator wants to	quickly copy	the formatting	g of one field to othe	r fields in a t	able without affecting data values.		
		the toolbar wo							
A. F			. Format Paint		Ascending	D. Togg	le Filter		
Use the follow	wing pict	ure to answer (0				
	ook ID	ISBN	Book Title	Subject	Publishing Date	Is Availab	le		
Table: Bo Sort:	оок	воок	BOOK	воок	воок	BOOK			
Show:	√		· · · ·		v				
Criteria:				="Physics"					
Or:									
22. What will be the output of the query based on the design shown in the image?									
					B. All books	books with the subject "Physics"			
C. All books that are available D. All books with ISBN numbers									
23. In this que	ery desig	n, which fields	will be shown	in the output?	,				
A. Book ID, Book Title, Subject, and Publishing Date B. ISBN and Is Available									
C. Book ID and ISBN only D. All fields									
24. What cone	dition is a	applied to filter	records in this	s query design	?				
A. The book must have an ISBN					B. The book r	B. The book must be available			
C. The book's subject must be "Physics"					D. The book 1	D. The book must have a specific publishing date			
25. If you wan	nted to so	ort the output b	y Publishing D	Date in ascendi	ng order, where wou	ıld you make	e the change in this query design?		
A. In the Show row under Publishing Date					B. In the Sort	B. In the Sort row under Publishing Date			
C. In the Criteria row under Subject D. In the Table row under Book Title						Book Title			
26. What would happen if the "Show" checkbox for the "Subject" field was unchecked in this design?									
A. T	he subjec	t "Physics" con	ndition would	be ignored			-		
B. T.	he output	would not sho	w the "Subjec	t" field, but on	ly records with "Phy	ysics" would	still be selected		
C. A	Il records	s, regardless of	subject, would	d be shown					
D. It	would di	isplay an error	message						
27. Which of	the follow	wing SQL state	ments will con	rectly select a	ll records from a tab	le named "S	tudents"?		
A. SELECT all FROM Students; B. SELECT * FROM Students;									
C. SELECT all records FROM Students;				D. SELECT e	D. SELECT everything FROM Students;				
28. A databas	e admini	strator wants to	ensure that a	"Salary" field			pe, only accepts values between		
30000 and 70000. Which of the following data validation conditions should be applied?									
			-		-	-	D. BETWEEN 30000 AND 70000		

END OF SECTION A

Class: XIMODEL PAPER EXAMINATION 2025Time: 2 hours 40 minutesSUBJECT: COMPUTER SCIENCE SECTION "B" AND SECTION "C" Total Marks60 Q2:SECTION "B" SHORT ANSWER QUESTIONS30Marks

Note: Attempt any <u>TEN</u> parts. All question carries equal marks.

- i. What is data communication, and what are its essential components? Explain their functions.
- ii. Explain modulation and demodulation, and describe their significance in data transmission.
- iii. Why is ROM classified as nonvolatile memory? Provide examples of its applications.
- iv. Identify two simplex devices used in communication systems, and discuss their role.
- v. Illustrate and label a block diagram of the fetch cycle, and describe its steps.
- vi. What is a protocol in networking? List three common protocols and explain their purposes.
- vii. Define an interpreter and compare it with a compiler in terms of functionality and performance.
- viii. Summarize the copyright law, and discuss its advantages in protecting intellectual property.
- ix. Draw and label the OSI model. Briefly explain the function of any three layers.
- x. Explain the instruction cycle with a well-labeled diagram. How does it relate to the functioning of a CPU?
- xi. Describe star topology, and analyze its advantages and potential limitations.
- xii. Which mode of data transmission is best suited for communication between a computer and a printer? Justify your answer.
- xiii. Discuss the role of the internet in education. Provide examples of how it enhances learning and teaching processes.
- xiv. Identify two full-duplex devices, and evaluate how their functionality improves communication systems.

SECTION "C" DETAILED ANSWER QUESTIONS 30 Marks

(7)

Note: Attempt any <u>TWO</u> questions. All question carries equal marks.

- Q3a. What is system software? Describe an operating system and explain its primary functions.(8)Q3b. Explain the OSI model with the help of a labeled diagram. Discuss the role of each layer.(7)Q4a. What is communication media in data transmission? Provide an overview and explain its various types.(8)Q4b. Describe the different types of communication media or channels used in data communication. Provide examples for each.(7)Q5a. What is network topology? Explain the different types of topologies with examples.(8)
- Q5 b. Explain the concept of basic logic gates. Use diagrams to illustrate their working.

END OF PAPER