



Class: XI

Time Allowed: 20 minutes

MODEL PAPER EXAMINATION 2026

SUBJECT: COMPUTER SCIENCE

SECTION "A"

Marks: 15

**Note:** Attempt **ALL** questions from this section. Each question carries **ONE** mark.

1. This is an example of system software:  
 A. MS Excel                      B. MS Word                      C. Operating system                      D. Basic
2. The process of converting digital signals to analog signals is called:  
 A. Modulation                      B. Demodulation                      C. Synchronization                      D. Transformation
3. This is not a computer virus:  
 A. Trojan horse                      B. Time bomb                      C. Avast                      D. Worm
4. In topology, all the nodes in the network are connected to a single cable or line:  
 A. Mesh                      B. Star                      C. Tree                      D. Ring
5. DPI stand for  
 A. Dot per inch                      B. Decimal per inch                      C. Digital per inch                      D. Data per inch
6. A bar code reader is an example of a/an  
 A. Processing device                      B. Input device                      C. Storage device                      D. output device
7. The internal process of starting up a computer is  
 A. Booting                      B. Self-start                      C. Warm up                      D. Start up
8. Hardware and software combination used for connecting similar network is an:  
 A. Router                      B. Gateway                      C. Bridge                      D. Switch
9. This technology is used to in compact disks:  
 A. Mechanical                      B. Electrical                      C. Electromagnetic                      D. Laser
10. The set of rules to send and receive data is:  
 A. Register                      B. Protocol                      C. Bus                      D. Ethernet
11. The peripheral devices are attached with computer through:  
 A. Sockets                      B. Connector                      C. Ports                      D. Plugs
12. This is the physical part over which message travels:  
 A. Compiler                      B. Protocol                      C. Medium                      D. Operating system
13. This virus replicates itself:  
 A. Worm                      B. Bug                      C. Vaccine                      D. Bomb
14. A hybrid computer is a/an:  
 A. Digital computer                      B. Analogue computer                      C. Both of these                      D. None of these
15. This software resides permanently in the memory chip:  
 A. Freeware                      B. Shareware                      C. Firmware                      D. Spyware

**(Practical based Assessment) (PBA)**

Marks: 25

**Note:** Attempt **ALL** questions. Each question carries **ONE** mark.

16. In MS Word, which feature lets you create a list with different levels (like main points and sub-points)?  
 A. Numbering                      B. Multilevel List  
 C. Bullets                      D. Paragraph Spacing
17. Which option in MS Word allows you to keep a paragraph together on one page instead of splitting it across two pages?  
 A. Window/Orphan Control                      B. Keep Lines Together  
 C. Keep with Next                      D. Page Break
18. In MS Word, which feature can automatically generate a list of figures, tables, or equations in a document?  
 A. Index                      B. Table of Contents  
 C. Table of Figures                      D. Caption
19. Which shortcut key in MS Word is used to insert a hyperlink?  
 A. Ctrl + H                      B. Ctrl + K  
 C. Ctrl + U                      D. Ctrl + L
20. Which option in MS Word helps you create different headers and footers for different parts of the same document?  
 A. Section Break                      B. Page Break  
 C. Different First Page                      D. Column Break
21. In MS Word, which feature ensures that if you insert or delete text, the numbering of figures, tables, or headings updates automatically?  
 A. AutoFormat                      B. Captions with Cross-references  
 C. Track Changes                      D. SmartArt
22. The Page Setup dialog **box** allows you to \_\_\_\_\_ for double-sided printing.  
 A. Gutter Position                      B. Book Fold  
 C. Mirror Margin                      D. Orientation
23. Which view in MS Word shows a document as it would look on a webpage, with no page breaks?  
 A. Draft View                      B. Web Layout View  
 C. Outline View                      D. Print Layout View
24. In MS Word, which tool allows you to automatically create a list of keywords at the end of a document, with page references?  
 A. Table of Figures                      B. Index  
 C. Citation Manager                      D. Hyperlink

25. Which feature in MS Word records a sequence of actions and allows you to run them again automatically?
- A. Macro  
B. Styles  
C. SmartArt  
D. Mail merge
26. If cell A1 contains the value  $=B1+C1*D1$ , which operation will be performed first?
- A. Addition ( $B1+C1$ )  
B. Multiplication ( $C1*D1$ )  
C. Both at the same time  
D. None of the above
27. Which of the following formulas will correctly calculate the average of cells A1 to A10, but ignore empty cells and text values?
- A.  $=MEAN(A1:A10)$   
B.  $=SUM(A1:A10)/10$   
C.  $=AVERAGE(A1:A10)$   
D.  $=COUNT(A1:A10)/SUM(A1:A10)$
28. Which feature in Excel allows you to summarize and analyze large amounts of data dynamically using drag-and-drop fields?
- A. Data Validation  
B. Scenario Manager  
C. PivotTable  
D. Goal Seek
29. In Excel, which of the following statements about conditional formatting is TRUE?
- A. It permanently changes the cell's value.  
B. It only works on numeric data.  
C. It dynamically changes the cell's appearance based on rules.  
D. It cannot be copied to other cells
30. In an Attendance Sheet, which formula can count the total number of "P" (Present) entries in a row for one employee?
- A.  $=SUM(A2:Z2)$   
B.  $=COUNT(A2:Z2)$   
C.  $=COUNTIF(A2:Z2,"P")$   
D.  $=IF(A2:Z2="P",1,0)$
31. If total marks are in column D and obtained marks in column E, which formula calculates percentage in column F?
- A.  $=E1/D1*100$   
B.  $=D1/E1*100$   
C.  $=(E1+D1)/100$   
D.  $=SUM(E1:D1)/100$
32. To highlight missing marks in a marks sheet (blank cells), which formula-based conditional formatting can be used?
- A.  $=ISBLANK(A1)$   
B.  $=IF(A1="", "Missing", "")$   
C.  $=COUNTBLANK(A1)$   
D.  $=LEN(A1)=0$
33. If units consumed are in column B and the rate per unit is in column C, which formula gives the total bill in column D?
- A.  $=B1+C1$   
B.  $=B1xC1$   
C.  $=B1-C1$   
D.  $=SUM(B1:C1)$
34. To add a fixed meter charge of 200 to every customer's bill, which formula should be used (Units in B1, Rate in C1)?
- A.  $=(B1*C1)+200$   
B.  $=(B1+C1)+200$   
C.  $=(B1/C1)+200$   
D.  $=SUM(B1:C1,200)$
35. If an electricity bill sheet displays "Overdue" when the bill amount is greater than 5000, which formula is correct?
- A.  $=IF(A1<5000,"Overdue","Paid")$   
B.  $=IF(A1>5000,"Overdue","Paid")$   
C.  $=IF(A1=5000,"Overdue","Paid")$   
D.  $IF(A1<=5000,"Overdue","Paid")$
36. To calculate **Net Salary** after deducting 10% tax from Gross Salary (in cell F1), which formula is correct?
- A.  $=F1-(F1*10\%)$   
B.  $=F1*0.1$   
C.  $=F1/10$   
D.  $=F1+10\%$
37. Which Excel tool is best to quickly filter attendance records by Present/Absent status?
- A. Sort  
B. Data filter  
C. group  
D. freeze panes
38. If the percentage is in column G, which formula can assign "Pass" for  $\geq 40\%$  and "Fail" for less than 40%?
- A.  $=IF(G1>40,"Pass","Fail")$   
B.  $=IF(G1>=40,"Pass","Fail")$   
C.  $=IF(G1<40,"Pass","Fail")$   
D.  $=IF(G1=40,"Fail","Pass")$
39. To round off the total bill in B1 to the nearest whole number, which formula is correct?
- A.  $=ROUND(B1,0)$   
B.  $=INT(B1)$   
C.  $=ROUNDUP(B1)$   
D.  $=TRUNC(B1)$
40. If the Due Date is in C1 and today's date is in D1, which formula checks whether the bill is overdue?
- A.  $=IF(D1>C1,"Overdue","Not Due")$   
B.  $=IF(D1<C1,"Overdue","Not Due")$   
C.  $=IF(D1=C1,"Overdue","Not Due")$   
D.  $=IF(D1<=C1,"Overdue","Not Due")$

## END OF SECTION A

Class: XI

MODEL PAPER EXAMINATION 2026

Time: 2 hours 40 minutes

SUBJECT: COMPUTER SCIENCE SECTION "B" AND SECTION "C"

Total Marks 60

Q2:

SECTION "B" SHORT ANSWER QUESTIONS

30Marks

**Note:** Attempt any **TEN** 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**

**Note:** Attempt any **TWO** questions. All question carries equal marks.

- Q3 a. What is system software? Describe an operating system and explain its primary functions. (8)
- b. Explain the OSI model with the help of a labeled diagram. Discuss the role of each layer. (7)
- Q4 a. What is communication media in data transmission? Provide an overview and explain its various types. (8)
- b. Describe the different types of communication media or channels used in data communication. Provide examples for each. (7)
- Q5 a. What is network topology? Explain the different types of topologies with examples. (8)
- b. Explain the concept of basic logic gates. Use diagrams to illustrate their working. (7)

**END OF PAPER**