



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



POST MID-TERM EXAMINATION (2025-26) INFORMATION TECHNOLOGY (802) / SUBJECT-05

Class : XI A/B/C

Date : 10-01-2026

Admission No.:

Duration: 60 mins

Max. Marks : 25

Roll No.:

General Instructions:

Try to attempt all questions as per given order.

All questions are compulsory.

The Question Paper is divided into two sections Section A and B.

- Section A has 10 questions. It carries 1 mark each.
- Section B has 14 questions. Out of which 10 question carry 2 marks each and the remaining 4 questions carry 3 marks each.

Section-A OBJECTIVE TYPE QUESTIONS

(Answer any 7 out of 10 MCQs)

1. Which of the following is an example of guided transmission media ?
a) Radio waves b) Infrared signals c) Fiber optic cables d) Satellite communication
2. Which is the latest version of the Internet protocol ?
a) IPv3 b) IPv4 c) IPv5 d) IPv6
3. Who introduced the concept of communication ?
a) Donal Davies b) Alexander Graham bell c) Len Kleinrock d) National Science Foundation
4. Which topology requires the least cabling ?
a) Bus topology b) Rink topology c) Star topology d) Mesh topology
5. What protocol governs the transferring of emails via the Internet ?
a) FTP b) SMTP c) POP3 d) HTTP
6. Which of the following is an aspect of digital literacy ?
a) Cyberbullying awareness b) Car maintenance skills
c) Musical Instrument proficiency d) Painting techniques
7. Which application is used to view web pages ?
a) Web browser b) Email application c) FTP client d) TELNET client
8. _____ passwords create vulnerabilities that can be exploited by any attacker.

a) Strong b) Name based c) Weak d) Incomplete

9. The short form of “Malicious software” is: 1
 a) Maliware b) Muscleware c) Malicware d) Malware

10. The L in SSL stands for : 1
 a) Leak b) Level c) layer d) Leased

SECTION – B SUBJECTIVE TYPE QUESTIONS
(Answer any 6 out of 10 Short Answer Questions)
Answer each question in 20-30 words

11. What is the difference between IPv4 and IPv6 ? 2

12. What is a network topology ? List the types of it. 2

13. What is the main difference between a hub and a repeater? In which type of network are they typically used ? 2

14. What are the some examples of skills needed to navigate the digital world ? 2

15. Write any three advantages of digital literacy. 2

16. What is an IP protocol ? List the layers of it. 2

17. What is the purpose of SMTP in email communication ? 2

18. What is an Anti-Virus ? Give four examples of it. 2

19. Define the following terminologies:
 a) Cyber Trolling b) Pharming 2

20. What is DoS ? List any two ways by which it can be launched. 2

(Answer any 2 out of 4 Long Answer Questions)

21. What is a computer Network ? List the different types. Explain any two with diagram. 3

22. Mention any three functions of the internet layer in the TCP/IP model. 3

23. Write any three protective measures that we can take while accessing Internet. 3

24. Define the IT Act. Mention its aims and how it protects its internet users. 3

******* BEST OF LUCK *******