



# B.K. BIRLA CENTRE FOR EDUCATION

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

## ANNUAL EXAMINATION (2025-26) INFORMATION TECHNOLOGY (802) / SUBJECT-05

Class : XI A/B/C  
Date : 18-02-2026  
Admission No.:

Duration: 3 Hrs  
Max. Marks : 60  
Roll No.:

### General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in two sections – Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (6 + 16 =) 22 questions, a candidate has to answer (6 + 12 =) 18 questions in the allotted (maximum) time of 3 hours.**
5. All questions of a particular section must be attempted in the correct order.

### SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section has 06 questions.
- ii. There is no negative marking.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

### SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section contains 18 questions.
- ii. A candidate has to do 11 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

### Section-A OBJECTIVE TYPE QUESTIONS

1. **Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)**
  - i. The process of setting up a business is known as \_\_\_\_\_. 1  
(a) Manufacturing (b) Trading (c) Entrepreneurship (d) None of these
  - ii. What does an upright (straight) body posture convey on show ? 1  
(a) Shyness (b) Fear (c) Confidence (d) Intelligence
  - iii. \_\_\_\_\_ refers to the things people do to keep themselves neat and presentable. 1  
(a) Team norms (b) Team Process (c) Grooming (d) None of these

- iv. \_\_\_\_\_ is not an alignment option in OpenOffice Writer. 1  
 (a) Left (b) Justified (c) Squeeze (d) Right
- v. Which of the given options can you add to a header ? 1  
 (a) Page number (b) Date (c) Title (d) All of these
- vi. Expand UNEP. 1  
 (a) United Nations Entertainment Plan (b) United Nations Environment Program  
 (c) United Nations Entry program (d) None of these
2. **Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)**
- i. Which of the following is an input device ? 1  
 (a) Monitor (b) Keyboard (c) Printer (d) Speakers
- ii. How is memory allocated to processes ? 1  
 (a) Static allocation (b) Dynamic allocation (c) Fixed allocation (d) None of these
- iii. What does the screen look like when the system goes to sleep mode ? 1  
 (a) Blue (b) White (c) Pink (d) Blank
- iv. It is necessary to \_\_\_\_\_ unwanted files regularly so that your disk has free space. 1  
 (a) Create (b) Manage (c) Delete (d) backup
- v. If you are faced with networking problems, you must press on Control Panel > \_\_\_\_\_. 1  
 (a) Sharing Centre (b) Network (c) Network and Sharing Centre (d) None of these
- vi. Which topology requires the least cabling ? 1  
 (a) Bus topology (b) Ring topology (c) Star topology (d) Mesh topology
3. **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- i. Which network device connects two networks that use different communication protocols ? 1  
 (a) Gateway (b) Switch (c) Repeater (d) Hub
- ii. Which topology provides redundancy and fault tolerance ? 1  
 (a) Bus topology (b) Ring topology (c) Star topology (d) Mesh topology
- iii. Which protocol is responsible for the functioning of the world wide web ? 1  
 (a) HTTPS (b) SMTP (c) POP3 (d) HTTP
- iv. Layer 3 security is also known as : 1  
 (a) Firewall (b) AntiVirus (c) Password Manager (d) Network Layer security
- v. Which tab provides commands such as view status, ruler, sidebar, etc., in OpenOffice Writer ? 1  
 (a) Insert tab (b) Format tab (c) View tab (d) Tools tab
- vi. What type of Software is OpenOffice Writer ? 1  
 (a) Graphic design software (b) Video editing software  
 (c) Word processing software (d) Web browsing software
4. **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- i. Which shortcut can you use for creating a new document ? 1  
 (a) Ctrl + O (b) Ctrl + W (c) Ctrl + N (d) Ctrl + P
- ii. With OpenOffice \_\_\_\_\_ you can explore a wide range of slide transition effects and animation options. 1  
 (a) Calc (b) Writer (c) Impress (d) Draw
- iii. By default, how many sheets are there in a newly opened spreadsheet ? 1  
 (a) Three (b) Two (c) One (d) Four

- iv. What does RDBMS stand for ? 1  
 (a) Rapid Database Management System (b) Relational Database Management System  
 (c) Resourceful data Backup Management System (d) Recursive Database Model System
- v. Which language is used to manage data in a database ? 1  
 (a) Java (b) HTML (c) SQL (d) C++
- vi. What command means “display all columns” ? 1  
 (a) SHOW COLUMNS (b) DISPLAY COLUMNS (c) LIST COLUMNS (d) SELECT \*
5. **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- i. Where is data stored in RDBMS ? 1  
 (a) In memory (b) In text files (c) In spreadsheets (d) In tables with rows and columns
- ii. Which SQL command is used to create databases and tables ? 1  
 (a) Insert (b) Delete (c) Select (d) Create
- iii. What is the result of the expression  $8\%3$  ? 1  
 (a) 2 (b) 3 (c) 2.67 (d) 2.0
- iv. Which operator is used to compare if two values are equal in Java ? 1  
 (a) == (b) = (c) != (d) None of these
- v. What will be the value of y after the following code: `int y=10; y*=2;` 1  
 (a) 5 (b) 10 (c) 20 (d) 12
- vi. Which operator is used for exponentiation in Java ? 1  
 (a) ^ (b) \*\* (c) ^^ (d) All of these
6. **Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)**
- i. What will be the output of the following code ? 1  
`num=15  
 System.out.println(“The value is:”+num);`  
 (a) The value is: num (b) The value is:15 (c) num (d) The code will not compile
- ii. The physical arrangement of computers in a network is called: 1  
 (a) Protocol (b) Topology (c) Bandwidth (d) Firewall
- iii. Which type of network covers a large geographical area? 1  
 (a) LAN (b) MAN (c) PAN (d) WAN
- iv. Which of the following is a wired transmission medium? 1  
 (a) Bluetooth (b) Wi-Fi (c) Optical fibre cable (d) Infrared
- v. Which of the following is an example of a wireless communication medium? 1  
 (a) Twisted pair cable (b) Optical fibre cable (c) Coaxial cable (d) Radio waves
- vi. The Internet is the best example of: 1  
 (a) LAN (b) MAN (c) WAN (d) PAN

### SECTION – B SUBJECTIVE TYPE QUESTIONS

**Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)**

**Answer each question in 20 – 30 words.**

7. List 7 Cs of Communication skills and explain any one. 2
8. Define Time Management. Explain a few time management strategies. 2
9. What is the utility of text wrapping in a document ? 2

10. What values does a successful entrepreneur have ? Write any two values with examples. 2
11. What is the aim of the Forest Conservation Act 1980 ? 2
- Answer any 5 out of the given 6 questions in 20 – 30 words each (2 x 5 = 10 marks)**
12. What is the main difference between RAM and ROM ? 2
13. What are some examples of unguided transmission media ? 2
14. What is a Macro in OpenOffice Writer? Explain its use with one example. 2
15. List some important features of MySQL. 2
16. What does JFrame allow the user to do ? 2
17. Differentiate between IP and MAC address. 2
- Answer any 4 out of the given 5 questions in 50– 80 words each (4 x 4 = 16 marks)**
18. What is troubleshooting? Explain any four common troubleshooting steps used to identify and resolve problems in a computer system. 4
19. Riya is working on a school project and needs to collect information from different websites, send the project to her teacher through email, and attend an online class from home. 4
20. Write an SQL command to create a table **STUDENT** with the following structure and solve the two queries (Any two): 4
- | Field Name | Data Type         |
|------------|-------------------|
| Roll_No    | INT (Primary Key) |
| Name       | VARCHAR(30)       |
| Class      | INT               |
| Section    | CHAR(1)           |
| Marks      | INT               |
- i) Insert any two records into the STUDENT table.  
 ii) Display the details of students who scored more than 75 marks.  
 iii) Display the names of students in ascending order.
21. Write a Java program to take three numbers as input from the user and display their sum and products. 4
22. What is network topology? Explain any two types of network topology with the help of neat diagrams. 4

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