



B.K. BIRLA CENTRE FOR EDUCATION

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

PRE MID-TERM EXAMINATION (2025-26) IT (802) / SUBJECT-05

Class : XI A/B/C
Date : 04-08-2025
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 three sections Section A to C.

- Section A has 10 questions. It carries 1 mark each.
- Section B has 10 questions. It carries 2 marks each.
- Section C has 5 questions. It carries 3 marks each.

Section-A

(Answer any 7 out of 10 MCQs)

1. What does the term "IPO" stand for in the context of computer operations ? 1
(a) Input-Process-Output (b) Input-Output-Program
(c) Instruct-Process-Operate (d) Input-Process-Operate
2. Which storage device uses spinning disks or platters to store data ? 1
(a) Cache Memory (b) SSD (c) Flash Memory (d) HDD
3. What type of memory is volatile and loses its data when the computer is turned off ? 1
(a) ROM (b) Cache Memory (c) SSD (d) RAM
4. What is the role of the Control Unit (CU) in a CPU ? 1
(a) Perform arithmetic operations (b) Interpret instructions and manage data flow
(c) Manage memory storage (d) Control input / output devices
5. What is the main advantage of using an SSD over an HDD ? 1
(a) Higher capacity (b) Slower Speed (c) Mechanical components (d) Faster Speed
6. What is the result of the expression $8 \% 3$? 1
(a) 2 (b) 3 (c) 2.67 (d) 2.0
7. Which operator is used to compare if two values are equal in Java ? 1
(a) == (b) = (c) equal (d) !=
8. What will be the value of x after the following code : `int x =5; x+=3 ;` 1

(a) 8 (b) 5 (3) 3 (d) 15

9. Which operator is used to perform logical AND in Java ? 1
(a) && (b) || (c) ! (d) &
10. Which operator is used for exponentiation in Java ? 1
(a) ^ (b) ** (c) ^^ (d) *

SECTION – B
(Answer any 6 out of 10 Short Answer Questions)

11. Compare HDD and SSD in terms of speed and reliability. 2
12. What is the main difference between RAM and ROM ? 2
13. What technology does an SSD use to store data ? 2
14. Differentiate between High Level Language and Low Level Language. 2
15. Define the following terms: (a) Cache Memory (b) Flash Memory 2
16. What are the various components used to create a GUI front-end interface ? 2
17. Write a program in Java that will take two numbers from the users and display the addition of the same. (Note: use Swing controls) 2
18. Write a program in Java that will take two numbers from the users and display the greatest between the two numbers. (Note: use Swing controls) 2
19. What are the different datatypes in Java ? Name it. 2
20. What does JFrame allow the user to do ? What is the default name of JFrame ? 2

SECTION – C
(Answer any 2 out of 5 Long Answer Questions)

21. List all the characteristics of a Computer. Describe any three. 3
22. Explain the concept of refresh in DRAM and how it affects its performance and operation ? 3
23. Create a GUI interface in NetBeans IDE which accepts two inputs from the user and calculates all the four arithmetic operations like addition, subtraction, multiplication and division. 3
24. Define variable ? Name the rules for naming it. Give example. 3
25. What you understand by Operator ? List the different types of operators. Given example. 3

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