## **Blooming Buds School**AFFILIATED TO CISCE, NEW DELHI – KA366 (ICSE SYLLABUS)

## **Chapter 5: Fundamentals of Programming**

Brain Developer

A. Fill in the blanks.

- 1. Object-Oriented Programming 2. Encapsulation 3. Class 4. Token
- 5. Assignment
- B. Write T for True and F for False.
- 1. F 2. T 3. T 4. F 5. T 6. F
- C. Select the correct option.
- 1. c 2. a 3. a 4. a 5. c 6. b
- D. Application-based questions.
- 1. To execute the program, right-click on the class icon. Select void main (String[] largs) option from the pop-up menu.
- 2. Arithmetic operator
- E. Answer the following questions.
- 1. Objects are real world entities or items. For example, a pen is an object. Its attributes are brand name,
- model, colour, price, etc., and its behaviour (function) is writing.
- 2. The word Polymorphism means "many forms". Polymorphism helps the programmer to use the same

function name for more than one purpose.

- 3. Operators are the special symbols that are used to perform calculations. They are applied to the variables
- and constants to form an expression.
- 4. A variable is a named location in the memory, which stores data temporarily.

A variable is assigned with a

unique name. The name is a sequence of letters and digits, but first character always starts with a letter or

underscore. Keywords are the reserved words of a Java program with some special meaning, and can be

used for that purpose only. The keywords cannot be used as variable names.

5. To utilise the maximum amount of memory, Java provides different data types, such as int, float, double,

char and Boolean.

- 6. Relational operators are used to compare two variables whereas logical operators are used to compare the
- result of the relational expressions.
- 7. Abstraction is a very important feature of the Object-Oriented Programming. It is used to manage the

complexity of the system i.e., it provides only the essential features of the system to the user and hides all

the complex processes.

8. When an expression contains more than one operator, it evaluates according to the precedence of

operators. A precedence of an operator depicts the order in which the different operators in an expression are evaluated.

## **Chapter 6: Control Structures**

Brain Developer

A. Fill in the blanks.

1. Selection 2. Control 3. Loop 4. if 5. if...else...if

B. Write T for True and F for False.

1. T 2. T 3. F 4. T 5. T

C. Select the correct option.

1. a 2. b 3. a 4. b 5. b

D. Application-based questions.

1. if... else...if ladder

2. num % 2 == 0

39

E. Answer the following questions.

1. A control statement determines whether or not the other statements will be executed. In other words, it

makes it possible to make decisions, perform tasks repeatedly, or jump from one section of the code to

another.

2. Selection statements are used to transfer the flow control to a specific location, depending on the result of

the conditional expression

3. The if statement executes a statement or a block of statements if the condition is true, otherwise it skips the

statements. The if...else control structure is used when either of the two different actions is to be

performed. If the conditional expression evaluates to true, the statements associated with the if block get

executed. Otherwise, the statements associated with the else block get executed.

4. The if...else...if ladder is an extension of the if...else statement. The if...else...if ladder provides a compact

way to check multiple conditions, where every condition has a block of statements.

5. Iterative statements are used to repeat a set of statements for a specific number of times as long as the

given condition is true. Selection statements are used to transfer the flow control to a specific location, depending on the result of the conditional expression.