FORMATIVE ASSESSMENT – SECOND MID TERM

COMPUTER SCIENCE

Max. Marks: 25

Std - VII   **Time: 1 Hr**

Name of the School:	Name of the Student:
_____	_____
Place:	Roll No.:
_____	_____

I.   Fill in the blanks: **4 x 1 = 4**

1. The _____ is used to program the EV3 robot.

2. The _____ sensor distinguishes seven different colors.

3. _____ EV3 core kit is a robotic kit that lets you build and program starter robot models.

4. The _____ sensor is used to detect and measure the distance between objects by generating sound waves.

II. True or false: **4 x 1 = 4**

1. The robot's rotational motion cannot be measured in EV3.

2. EV3 software is used to program the EV3 robot.

3. The EV3 brick is the central hub of the robot that controls every function of the robot.

4. The EV3 robot has a touch sensor that can detect touch.

III. Match the following: **4 x 1 = 4**

1. Data type   -   reference

2. Primary   -   enum

3. Derived   -   set of values

4. User-defined   -   float

IV. Answer the following: (Any 4)   **4 x 2 = 8**

1. What is the data type in C?

2. What are the datatypes present in the derived data type?

3. What is Lego Mindstorms EV3?

4. What is the use of the gyro sensor?

5. Write an example for the declaration of each primary data type with variable names.

V. Answer in detail: (Any 1)   **1 x 5 = 5**

1. Write a program in C to show the declaration of data types with variables.

2. Write the steps to assemble and code the EV3 robot.