

FORMATIVE ASSESSMENT – SECOND MID TERM

ENTER THE WORLD OF IT

Max. Marks: 25

Std - VII

Time: 1½ Hrs

| | |
|---------------------|----------------------|
| Name of the School: | Name of the Student: |
| Place: | Roll No.: |

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

1. C provide various types of _____ which allow the programmer to select the appropriate type for the variable to set its value.

2. ANSI C provides _____ types of data types.

3. The _____ sensor distinguishes seven different colours.

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

II. True or False: 4 x 1 = 4

5. Arrays are sequences of data items having homogeneous values.

6. Unions are derived data types.

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

8. The robot’s rotational motion cannot be measured in EV3.

III. Match the following: 4 x 1 = 4

9. Data type

10. Touch sensor

11. Primary

12. User defined
- –

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- Trigger a function

Set of values

Num

Float

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

13. Write down the different data types in C.

14. What is the use of the gyro sensor?

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

16. Describe the functionality of the colour sensor.

17. What is lego Mindstorms EV3?

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

18. Write a brief note on different data types present in C.

19. What are the main components of lego Mindstorm EV3? Describe them.