# B.K. BIRLA CENTRE FOR EDUCATION

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

## PERIODIC TEST II 2025-26

## ARTIFICIAL INTELLIGENCE

**Class : VIII**  **Duration : 1 Hrs**
**Date   :07/11/25**  **Max. Marks : 25**
**Admission No.:**  **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 11 questions attempt 11 and carry 1 mark each.
- Section B has 4 questions attempt 4 and carry 2 marks each.
- Section C has 2 questions attempt 2 and carry 3 marks each.

### Section-A

**Multiple Choice Questions: (Each 1 Mark)**

1. The _____ has been called an "ultra-compact assistant robot" due to its small size and friendly demeanour.
a. Roomba      b. Sophia      c. Wakamaru      d. Nao

2. The RX-V100 responds with "All right" using AI speech when a user commands it to clean, and it "waggles" in response. The cleaning process then starts in Automatic Mode.
a. Nao      b. Wakamaru      c. Sophia      d. RX-V100

3. _____ is an artificially intelligent robot toy with a strong personality and a range of emotions.
a. a. Shophia      b. Cozmo      c. Nao      d. Eurobot

4. The US spacecraft Mariner 2 made history on December 14, 1962, when it successfully completed a flyby of:
a. Mars      b. Sun      c. Mercury      d. Venus

5. The _____ vacuum cleaner robot is a little, self-contained cleaning robot that you can control to clean rugs, carpets, and floors.
a. Roomba      b. Sophia      c. Nao      d. Eagle 2.0

6. Among the top producers of weeding robots worldwide are Nexus Robotics and Naïo Technologies, both from:
a. Spain      b. USA      c. Japan      d. France

7. What are the benefits of using humanoid robots?
a. They can perform tasks that are dangerous for humans.
b. They can work 24/7 without getting tired.
c. They can be programmed to do repetitive tasks.
d. All of the above.

8. Which of the following is an example of a humanoid robot?
a. Roomba        b. Pepper        c. Alexa        d.Tesla
9. Which of the following is not a feature of humanoid robots?
a. AI              b. Facial recognition        c. Speech recognition        d. Four legs
10. What are the current applications of humanoid robots?
a. They are used in manufacturing and assembly.
b. They are used in health care to assist patients.
c. They are used in education to teach children.
d. All of the above.
11. What are some of the challenges associated with designing and building humanoid robots?
a. Finding the right material to use.
b. Making the robot walk and move like a human.
c. Making the robot think like a human.
d. All of the above

**Short Questions :**
1.  Give any two examples of Military Robots being used by India.                    2
2.  How are robots used in the domestic sector? Explain with a few examples.        2
3. Write any two identification rules of an industrial robot.                       2
4.  State any two identification rules of a mobile robot.                           2

## SECTION – C
**Long Questions:**
1.  Robots for education are intended for use in classrooms and other learning environments.        3
Justify the statement by giving a three points.

2. What is a humanoid robot? Give a few characteristics of a humanoid robot.        3