



# B.K. BIRLA CENTRE FOR EDUCATION

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

## ANNUAL EXAMINATION 2025-26 ARTIFICIAL INTELLIGENCE (SET 02)

Class: VI

Date: 18-03-2026

Name: .....

Duration: 2 hrs.

Max Marks: 50

Exam No. :

### General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of 19 questions in two sections: Section A & Section B.
3. Section A has Objective type questions (MCQ, Fill in the blanks, Match the following) whereas Section B contains Subjective type questions.
4. All questions of a particular section must be attempted in the correct order.
5. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
  - i. This section has 03 questions.
  - ii. Marks allotted are mentioned against each question/part.
  - iii. There is no negative marking.
  - iv. Do as per the instructions given.
6. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
  - i. This section has 16 questions.
  - ii. A candidate has to do 11 questions.
  - iii. Do as per the instructions given.
  - iv. Marks allotted are mentioned against each question/part.

## SECTION A: OBJECTIVE TYPE QUESTIONS

### I. Multiple Choice Questions: (Answer any twelve)

(12 X 1 = 12)

- (1) Which of the following is a pictorial representation of an algorithm ?  
(a) Pseudocode      (b) Program      (c) Flowchart      (d) Algorithm
- (2) What symbol is used to represent output in a flowchart ?  
(a) Circle      (b) Square      (c) Parallelogram      (d) Kite shaped box
- (3) When can algorithms be used ?  
(a) Only with computers      (b) Only when programming  
(c) Only with flowcharts      (d) Any time to design solutions to problems
- (4) Which of these animals can identify itself when seen in a mirror ?  
(a) Dogs      (b) Elephants      (c) Tiger      (d) Dolphins
- (5) Due to which of these abilities has human beings emerged as the dominant species on Earth?  
(a) Great strength      (b) Great speed  
(c) Great size      (d) High intelligence
- (6) A home equipped with lighting, heating and electronic devices that can be controlled remotely by smartphone or computer is called a .....  
(a) Smart home      (b) Intelligent home      (c) Sustainable home      (d) Sensor home

- (7) Which technology does Bloomberg use to help make quick sense of complex financial reports ?  
 (a) Cyborg technology (b) Access  
 (c) Excel (d) J2EE
- (8) What is the function of the “Move 10 steps” command block ?  
 (a) Runs the blocks inside over and over (b) Move sprite forward  
 (c) Runs script below when specified key is pressed  
 (d) None of the above
- (9) What will happen if we place the instruction blocks in the Scratch in the wrong order ?  
 (a) The program will start working slowly (b) The program will not work well  
 (c) The program will terminate (d) The speed of the program will increase
- (10) A sprite can have one or more ....., allowing it to change its appearance as an application executes.  
 (a) Appearances (b) outfits (c) costumes (d) disguises
- (11) The cat in Scratch is an example of .....  
 (a) Avatar (b) Sprite (c) Template (d) Character
- (12) ..... is when someone uses your personal data to impersonate you, typically to steal from you.  
 (a) Cyberstalking (b) Cyberbullying (c) Identity Theft (d) Spoofing
- (13) The short form of malicious software is .....  
 (a) Malware (b) Malsoft (c) Maliware (d) Malisoft
- (14) Which one of the following is susceptible to radiation and infection ?  
 (a) Human (b) Robots  
 (c) Both (a) and (b) (d) None of the above
- (15) Robot is derived from Czech word .....  
 (a) Rabota (b) Robota  
 (c) Rebotata (d) Ribota

**II. State True/False : (Answer any eight)**

**(8 X 1 = 8)**

- (1) In a flowchart, a calculation (process) is represented by a parallelogram.  
 (2) When you write an algorithm the order of the instructions is very important.  
 (3) Intelligence allows us to imagine and use our experiences in life to solve problems.  
 (4) The stage can be assigned a series of backgrounds, allowing an application to change backgrounds during application execution.  
 (5) In Scratch, Looks blocks are blue.  
 (6) Cyberstalking is considered as an extension of cyberbullying.  
 (7) Phishing is a malware which gains access to your computer system and demands for ransom.  
 (8) Cyberbullying is a type of cybercrime that uses the internet and technology to harass or stalk a person.  
 (9) Robots don't get tired or require a break.  
 (10) Robots cannot assist humans with disabilities.

**III. Fill in the blanks. (Answer any four)**

**(4 X 1 = 4)**

- (1) ..... is an AR device while Oculus Rift is a VR system.  
 (2) Dressed is a ..... closet app for the iphone.  
 (3) .....helps you try out a shade of paint for your room before you buy.  
 (4) ..... app that lets you see how a piece of furniture will look and fit in your space.  
 (5) Snapchat ..... are actually augmented reality (AR) experiences that superimpose 2D and 3D artwork onto a user's face or surroundings.

## **SECTION B: SUBJECTIVE TYPE QUESTIONS**

### **IV. Short Answer Type Questions: (Answer any seven)**

**(7 X 2 = 14)**

- (1) Write an algorithm to bake a cake.
- (2) Differentiate between an Algorithm and Flowchart.
- (3) Define Intelligence. Name any two animals that are much stronger than the strongest human.
- (4) Explain any two features of Intelligence.
- (5) Artificial Intelligence is impacting the future of virtually every industry and every human being. Justify.
- (6) Explain block coding.
- (7) Explain any two commands from the Looks Block in Scratch.
- (8) Differentiate between Proxy and VPN.
- (9) Explain at least two advantages and disadvantages each of a robot.
- (10) Explain the use of augmented reality in the field of beauty.

### **V. Long Answer Type Questions : (Answer any four)**

**(4 X 3 = 12)**

- (1) Draw flowchart for the following :
  - (a) Sum of two numbers
  - (b) Average of three numbers
- (2) What is Intelligence. Define Human intelligence & Artificial intelligence.
- (3) Describe intelligent security.
- (4) Explain any three blocks used in scratch.
- (5) What is cyber crime ? Explain its classification.
- (6) Explain any three challenges faced in the field of Robotics.

\*\*\*\*\* ALL THE BEST \*\*\*\*\*