BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
ANNUAL EXAMINATION 2024-25
ARTIFICIAL INTELLIGENCE

Class: VI   **Duration: 2 hrs.**
Date: 10-03-2025   **Max Marks: 50**
Name: ……………………………   **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) Kite/Diamond shaped box in a flowchart is used for :
     (a) Decision   (b) Input   (c) Output   (d) Process

(3) Which one of the following is not a characteristics of a good algorithm ?
     (a) Finiteness   (b) Effectiveness   (c) Ambiguity   (d) Feasibility

(4) 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

(5) Which of the following is not a sign of Intelligence ?
     (a) Solve problems   (b) Creating a poem
     (c) Writing an original story   (d) Taking bath

(6) What is the function of the "when green flag clicked" command block ?
     (a) Points sprite in the specified direction   (b) If condition is true, runs the blocks inside
     (c) Runs the script   (d) None of these

(7) 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
(8) How do you create code in Scratch ?
    (a) Snap block together   (b) Write code in the editor
    (c) Draw blocks in the editor   (d) Copy and paste code
(9) The cat in Scratch is an example of …………………
    (a) Avatar   (b) Sprite   (c) Template   (d) Character
(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) …………… is a malware which gains access to your computer system and demands for ransom.
    (a) Email Spoofing   (b) Ransomware   (c) Phishing   (d) Identity Theft
(12) The short form of malicious software is ………………..
    (a) Malware   (b) Malsoft   (c) Maliware   (d) Malisoft
(13) ……. is a type of cybercrime that uses the internet and technology to harass or stalk a person.
    (a) Cyber Harassing   (b) Cyber Targeting
    (c) Cyberstalking   (d) Cyberbullying
(14) Which one of the following is susceptible to radiation and infection ?
    (a) Human   (b) Robots   (c) Both a and b   (d) None of these
(15) Robot is a ……………………
    (a) Multi functional manipulator   (b) Programmable
    (c) Both a and b   (d) None of these

II. State True/False : (Answer any eight)   (8 X 1 = 8)
(1) When you write an algorithm the order of the instructions is very important.
(2) In a flowchart, a calculation (process) is represented by a parallelogram.
(3) Intelligence allows us to imagine and use our experience in life to solve problems.
(4) Is Scratch a programming language ?
(5) The green flag and red stop buttons provide control over script execution.
(6) In Scratch, Looks blocks are blue.
(7) Cyberstalking is considered as an extension of cyberbullying.
(8) Phishing is a cyber attack which redirects the traffic of the website to a false website which looks similar to the original one.
(9) Robots don't get tired or require a break.
(10) Robots can't 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) Explain an algorithm using an example.

(2) Define : (a) Human Intelligence   (b) Artificial Intelligence

(3) Give any four examples of display of intelligence in the animal world i.e. apart from humans.

(4) Explain block coding.

(5) Explain what the Looks block in Scratch does ?

(6) What is a cyber crime ? Explain at least two types of cybercrimes.

(7) Differentiate between Cyberbullying and cyberstalking.

(8) What is a Robot ? Write and explain any two characteristics of a Robot.

(9) Explain any four challenges faced in the field of Robotics.

(10) Define : (a) Augmented Reality   (b) Virtual Reality

V. Long Answer Type Questions : (Answer any four)   **(4 X 3 = 12)**

(1) Draw flowchart to find the following :

    (a) Sum of two numbers   (b) Average of three numbers

(2) Write and explain any three features of Intelligence

(3) Give names of various blocks used in Scratch and describe any three.

(4) Describe any four commands from the Looks Block in Scratch.

(5) Different security measures should be followed to be safe from the dreadful act of cyber crime.
     Mention any six security measures.

(6) Differentiate between a Robot and a Machine.

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