B. K. BIRLA CENTRE FOR EDUCATION, PUNE

(SENIOR SECONDARY CO-ED DAY CUM RESIDENTIAL SCHOOL, AFFILIATED TO CBSE NEW DELHI)

ANNUAL EXAMINATION (2024-25)

ARTIFICIAL INTELLIGENCE

Class : V   **Duration : 2 Hours**

Date : 17-03-2025   **Max. Marks : 50**

Note: Read the questions carefully and answer according to the instructions given.

1. **Multiple Choice Questions.(Answer any 5 of 6):**   **5 x 1 = 5 Marks**

   i.   The most common video format is ……..

           a.   MP3   b. RealAudio   c. Flash

   ii.   There are ………..basic elements of multimedia.

           a.   Three   b. Four   c. Five

   iii.   The software requirements of multimedia may include……..

           a.   Windows Media player   b. VLC player   c. Both a and b

   iv.   ………….is a visual representation of something.

           a.   Image   b. Text   c. Audio

   v.   ……………is a collection of audio digital files which can be downloaded or listening through the internet.

           a.   Graphics   b. Multimedia   c. Podcast

   vi.   The components of media such as text, pictures, sounds etc used together to present the information is called………….

           a.   Multimedia   b. Graphics   c. Podcast

2. **Fill in the blanks with the help of words given in the box. .(Answer any 5 of 6): 5 x 1 = 5 Marks**

ISP	Signature	Video Conferencing	Internet	Internal Modem	Chatting

   i.   ……………is inserted at the bottom of each mail we send.

   ii.   ……………is the network of internet connected computer across the world.

   iii.   ……………allows us to communicate with others in real time.

   iv.   …………….is already installed in your computer.

   v.   Using telephone line computer is connected to…………..

   vi.   Using…………we can see the distant person while we talking to him.

3. **Write 'T' for true and 'F' for false statement.(Answer any 5 of 6):**   **5 x 1 = 5 Marks**

   i.   A sound block contains 9 purple coded color blocks.

   ii.   We cannot delete the default sprite and add a new sprite.

   iii.   Scratch provides various in-built sprites from which we can choose and add it on stage.

iv. The value of a variable can be in the form of number or text.

v. We can also record our own sound but cannot add in script.

vi. The color code of sensing block is blue.

4. Fill in the blanks with the help of words given in the box.(Answer any 5 of 6): 5 x 1 = 5 Marks

Data	Sorting	Information	Pictogram	Decoding	Encoding

i. ………………..are row facts and figures which may not have any meaning.

ii. …………………refers to arrange the data in a specific order.

iii. ………………..is the process of converting the coded message back to its original form.

iv. When data is processed, it produces the …………..

v. A……………..is a pictorial representation of some word or phrases.

vi. ………………..is the process of converting an original message into coded message.

5. Write the suitable answer from the given options. (Answer any 4 of 6): 4 x 1 = 4 Marks

i. ………......is an educational humanoid robot.
   a. Nao   b. Root   c. Both a and b

ii. …………….is an Artificial Intelligence agent which is specialized to play **Go** a Chinese board game.
   a. Dark Forest   b. Deep Blue   c. AlphaGo

iii. We have entered to the fourth industrial revolutions of ………………..
   a. Electricity   b. IT   c. Artificial Intelligence

iv. In……………..,Alan Turing proposes a test for machine intelligence, known as Turing Test.
   a. 1950   b. 1955   c. 1964

v. ……………….is a smart speaker developed by Apple Inc to enjoy the music at home.
   a. Roomba   b. Home Pod   c. Robovac

vi. Sofia is a social learning robot who can efficiently communicate using ………..……language.
   a. Natural   b. Programming   c. Machine

Short Answer Questions (Answer any 7 of 10)   7 x 2 = 14 Marks

6. Define the term Artificial Intelligence.

7. Name the robots which can communicate in natural language.

8. Name the various ways to represent the information.

9. What is Encoding and Decoding?

10. What is the purpose of "When Green Flag Clicked" block?

11. Write the steps to add a new sprite in Scratch?

12. Define any four services provided by internet.

13. What do you mean by search engine? Explain.

14. What is Multimedia? How it is useful in the field of education?

15. What are the hardware requirements of a computer system to support multimedia?

Long Answer Questions (Answer any 4 of 6)   **4 x 3 = 12 Marks**

16. Who was Alan Turing? What was the purpose of Turing Test?.

17. What do you mean by sorting Data? Differentiate between data and Information.

18. What is the use of Sensing Block? How many blocks are there in Sensing block?

19. How can you create an E-mail account? Write steps to create account.

20. Name the five basic elements of multimedia. Explain any two elements.

21. Write the short notes on any two of the following:

    a. Podcast

    b. Audio Slideshows

    c. Animated Videos

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