iAIO
International Artificial Intelligence Olympiad

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SilverZone Foundation
New Delhi, India

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Class 7 : Sample Questions

The actual question paper contains 35 questions. The duration of the test paper is 40 minutes.

1. **Why is data augmentation sometimes applied before training an AI model?**
   (A) To enlarge the dataset and improve generalisation
   (B) To hide sensitive records
   (C) To shorten training time only
   (D) To reduce the number of required labels

2. **What is the correct use of the head() function in the Pandas library?**
   (A) It deletes the top rows of a DataFrame
   (B) It displays the first few rows of a DataFrame
   (C) It changes the column names
   (D) It sorts the data alphabetically

3. **In a supervised learning project, which element must be present?**
   (A) Labelled data
   (B) Random guessing
   (C) Hidden code
   (D) Internet connection

4. **What is the main role of the fit() function in a machine learning model?**
   (A) It checks spelling
   (B) It tests the final model
   (C) It trains the model using the provided data
   (D) It creates animations

5. **Which library is commonly used for natural language processing in Python?**
   (A) NumPy   (B) OpenCV
   (C) Matplotlib   (D) NLTK

6. **In a basic image classification task, what does the Flatten layer in a neural network do?**
   (A) Converts the image into sound
   (B) Adds new colours to the image
   (C) Turns a 2D image into a 1D list of numbers
   (D) Encrypts the image

7. **What is a chatbot primarily used for in NLP?**
   (A) Responding to user input using text
   (B) Playing music automatically
   (C) Deleting old files
   (D) Controlling screen brightness

8. **Which of these is an example of reinforcement learning?**
   (A) A robot that tries different paths in a maze and learns from rewards
   (B) A voice assistant learning new accents
   (C) A system that groups books by genre
   (D) A search engine finding keywords

9. **What is the main ethical concern in using AI for job recruitment?**
   (A) If the AI crashes
   (B) If the AI has no internet
   (C) If it unfairly selects candidates based on biased data
   (D) If it answers too quickly

10. **What is the function of a classifier in machine learning?**
    (A) To change the code into pictures
    (B) To assign new names to variables
    (C) To build websites
    (D) To predict categories or labels for input data

SAMPLE QUESTION'S ANSWERS

| 1. (A) | 2. (B) | 3. (A) | 4. (C) | 5. (D) | 6. (C) | 7. (A) | 8. (A) | 9. (C) | 10. (D) |