B.K. BIRLA CENTRE FOR EDUCATION
SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

TERM-1 EXAMINATION (2025-26)
ARTIFICIAL INTELLIGENCE

Class : VIII   **Duration : 2 Hrs**
Date : 17-09-2025   **Max. Marks : 50**
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 5 questions. Do as per the instructions given.
- Section B has 8 questions attempt 7 and carry 2 marks each.
- Section C has 6 questions attempt 4 and carry 3 marks each.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.(1) Answer any 4 out of the given 6 questions (4 x 1 = 4)

1. Grouping customers with similar buying habits together is the example of _____.
A. Clustering   B. Supervised Learning
C. Unsupervised Learning   D. Reinforcement Learning

2. _____ algorithms can figure out how to perform important tasks by generalizing from examples.
A. Artificial Intelligence   B. Machine Learning
C. Deep Learning   D. Data Mining

3. _____ is a feedback-based machine learning technique in which an agent learns from the environment.
A. Supervised Learning   B. Unsupervised Learning
C. Reinforcement Learning   D. Deep Learning

4. Which of the following is Not a type of machine learning?
A. Supervised learning   B. Unsupervised learning
C. Reinforcement learning   C. Deep learning

5. Which of the following application of machine learning is having significant impact on the world?
A. Self-driven car   B. Face recognition
C. Fraud detection   D. All of these

6. Which of the following is Not a characteristics of machine learning?
A. Ability to learn from data   B. Ability to make predictions
C. Ability to reason and make decisions   D. Ability to adapt to new situations

Q.(2) Answer any 5 out of the given 6 questions (5 x 1 = 5)

1. Alice and Bob are:
A. AI voice assistants   B. Social media influencers
C. Facebook chatbots   D. Virtual reality characters

2. Full form of 'TAY' , the artificial chatbot is:
A. Talking AI Youth   B. Thinking About You
C. Trained Assistant for You   D. Technical AI Yielder

3. In June 2005, a _____ at a hospital in Philadelphia malfunctioned during prostate surgery.
 A. nurse assistant　　　　　B. surgical robot
C. computer system　　　　D. medical scanner
4. A _____ is caused when a prediction or end outcome negatively impacts an individual's ability to establish their rightful identity.
A. Fairness　　　　B. Harm　　　C. Job loss　　　D. Accuracy loss
5. Safety in AI can be understood as "AI must not cause accidents, or exhibit_____.
A. Harmful behavior　　　　B. Human touch
C. Precision　　　　　　　D. Fairness
6. _____ are AI generated videos or audio content with an intent to deceive.
A. Deep fakes　　　B. Canva　　　C. Facebook　　　D. None of these

Q.(3) **Answer any 5 out of the given 6 questions (5 x 1 = 5)**
1. What is your data footprint?
A. The data left by you when you surf the internet
B. The time you spend on your computer
C. The number of electronics you buy in a year
D. The number of Apps you have on your mobile
2. What is the purpose of transforming data into information?
A. To make data easier to store　　　B. To make data easier to analyze
C. To give data meaning and context　　D. To make data more valuable
3. _____ refers to the protection of personal information or data that individuals share with organization or third parties.
A. Data recovery　　　B. Data Footprint　　C. Data Privacy　　D. None of these
4. Which refers to the process of representing data and information in a graphical format?
A. Data visualization　　B. Data recovery　　C. Data privacy　　D. All of these
5. Which refers to the accidental or intentional destruction or deletion of data?
A. Data export　　　B. Data import　　　C. Data loss　　D. All of these
6. Which of the following is an example of quantitative data?
A. The colour of a product　　　B. The size of customer business
C. The number of item sold in a day　　D. The customer opinion of a product

Q.(4) **Answer any 5 out of the given 6 questions (5 x 1 = 5)**
1. There is no _____ in a self-driven car.
A. Human　　　B. Engine　　　C. Steering wheel　　D. Fuel
2. A megapixel means _____ pixel.
A. One Million　　B. Two Million　　　C. One Thousand　　D. None of these
3. _____ is the image recognition technology developed by Google based on neural network.
A. Inner eye　　　B. Google lens　　　C. Pixelit　　D. Captchas
4. Which of the following is an application of computer vision?
A. Robotics　　　B. Medicine　　　C. Security　　　D. All of these
5. _____ are images that contains text you have to type in before you can access a website.
A. CAPTCHAS　　B. PNG　　C. JPG　　　D. TIFF
6. _____ images are made up of three primary colours Red, Green and Blue.
A. RGB*　　　B. PNG　　　C. BAT　　D. TXT

Q.(5) **Answer any 5 out of the given 6 questions (5 x 1 = 5)**
1. _____ bot works around a script which is programmed in them.
A. Smart　　　B. Script　　C. Analysis　　　D. Sentiment
2. Which of the following is the type of data used by NLP applications?
A. Images　　　B. Numerical　　　C. Graphical　　　D. Text and Speech

3. Which analysis is the interpretation and classification of emotions within text data using text analysis techniques?
A. Natural   B. Sentiment   C. Language   D. None of these
4. Which is the sub field of AI that is focused on enabling computer to understand and process human language?
A. Natural Language Processing   B. Computer Vision
C. Data   D. None of these
5. Which is the first chatbot created in 1964?
A. Eliza   B. Mitsuku   C. Haptik   D. None of these
6. Which one is the smart assistants we are using in daily life?
A. Siri   B. Alexa   C. Cortana   D. All of these

SECTION – B SUBJECTIVE TYPE QUESTIONS

Short Answer Type Questions (7 x 2 = 14):
1. What is Machine Learning?
2. Define Ethics.
3. Write any two Ethics of AI.
4. Differentiate between data and information?
5. What are data footprints?
6. Write any two ways in which the functionality of Radiologists can be augmented using computer vision.
7. What is the use of Face Filter in Computer Vision application?
8. What is Email filter?

SECTION – C SUBJECTIVE TYPE QUESTIONS

Long Answer Type Questions (4 x 3 = 12):
1. Differentiate between AI (Artificial Intelligence) and ML (Machine Learning).
2. Explain any two examples where AI is being used for good.
3. Give any three examples of how data impacts our daily lives.
4. Differentiate between Pixel and Resolution.
5. Differentiate between Script bot and Smart bot.
6. Explain: a) Smart Assistants   b) Chatbot

*** ALL THE BEST ! ***