

केंद्रीय विद्यालय संगठन, बेंगलुरु संभाग
KENDRIYA VIDYALAYA SANGATHAN, BENGALURU REGION
प्रथम प्री-बोर्ड परीक्षा 2025-26
FIRST PREBOARD EXAMINATION 2025-26

Class: X

Maximum Marks: 20

Subject: ARTIFICIAL INTELLIGENCE (417)

Time: 30 MINS

General Instructions:

1. Please read the instructions carefully.
2. OBJECTIVE TYPE QUESTIONS (20 MARKS):
 - i. There is no negative marking.
 - ii. Do as per the instructions given.

OBJECTIVE TYPE QUESTIONS

EMPLOYABILITY SKILLS		
Q.1	Answer the following questions (4X1=4 Marks)	
i	What leads to cultural barriers between people from different backgrounds? a) Common interests b) Differences in beliefs and customs c) Similar lifestyles d) Active listening	1
ii	Ravi gets distracted by social media while studying. To stay focused, he turns off notifications and uses a timer for study sessions. What skill is he applying? a) Creativity b) Stress management c) Self-regulation d) Memory training	1
iii	Anjali is working on her school project on her computer. She notices that her inbox is full of emails promoting online shopping, fake contests, and random advertisements. At the same time, her computer storage has unnecessary files that she never created or downloaded. The unnecessary emails and files that Anjali receives are commonly referred to as: a) Important system files b) Unwanted junk emails or files c) Program installation files d) Media files like videos and music	1
iv	An entrepreneur must be innovative because: a) Innovation helps in creating new products and ideas b) Innovation reduces competition completely c) Innovation avoids hard work d) Innovation guarantees profit without risk	1

Q.2	Answer the following questions (4X1=4 Marks)	
i	Assertion (A): Self-driving cars use AI to recognize traffic signs, pedestrians, and other vehicles. Reason (R): This is possible through Computer Vision, which enables machines to interpret visual data. Choose the correct option: a) Both A and R are true, and R is the correct explanation of A b) Both A and R are true, but R is not the correct explanation of A c) A is true, but R is false d) A is false, but R is true	1
ii	Rama is building an AI chatbot for her school library. • First, she studied the problem: students face difficulty finding available books. • Then, she collected past records of book borrowings. • She organized the data into categories such as title, author, and availability. • Later, she trained a chatbot using this data. Which stage of the AI Project Cycle is missing in her approach? a) Problem Scoping b) Data Acquisition c) Data Exploration d) Evaluation	1
iii	Using facial recognition cameras without consent violates which ethical principle? a) Accountability b) Privacy c) Transparency d) Safety	1
iv	In which stage of the AI Project Cycle do we check the accuracy of an AI model? a) Problem Scoping b) Data Acquisition c) Evaluation d) Data Exploration	1
Q.3	Answer the following questions (4X1=4 Marks)	
i	Deep Learning (DL) is a further subset of Machine Learning that uses: a) Simple databases b) Neural networks with multiple layers c) Rule-based decision-making only d) Direct human instructions	1
ii	A spam email filter that learns from previous examples of spam and non-spam mails is an example of: a) AI only b) Machine Learning c) Deep Learning d) Robotics	1
iii	Which of the following is a limitation of Rule-based AI systems? a) They can learn from data automatically b) They require manual rule creation and updating c) They handle uncertainty well d) They are adaptive in nature	1
iv	Assertion (A): Classification and Regression are subcategories of Supervised learning. Reason (R): Both tasks require labelled training data — classification predicts discrete class labels while regression predicts continuous numeric values.	1

