

# B.K. BIRLA CENTRE FOR EDUCATION



SARALA BIRLA GROUP OF SCHOOLS A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

#### PERIODIC TEST 2025-26

# **ARTIFICIAL INTELLIGENCE (417)**

Class: IX	Duration: 1 Hrs
Date : 02-07-2025	Max. Marks : 25
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 11 questions attempt 11 and carry 1 mark each.
- Section B has 6 questions attempt only 4 and carry 2 marks each.
- Section C has 4 questions attempt only 2 and carry 3 marks each.

### **Section-A**

1.	Which of the following is NOT a type of communication?  A. Verbal  B. Non-verbal  C. Written  D. Imaginary	1
2.	Which of the following is NOT one of the 3 P's of public speaking?  A. Prepare B. Practice C. Perform D. Punish	1
3.	Which article correctly completes the sentence: "I saw elephant at the zoo."  A. a	1
4.	Which of these is a sign of effective communication? A. Only one person speaks B. Message is clearly understood C. No response from listener D. Speaking louder than others	1
5.	Which of the following best defines Artificial Intelligence (AI)?  A. Machines that are faster than humans  B. Making machines perform tasks that require human intelligence  C. Writing computer programs only  D. Machines replacing all humans	1
6.	Which of the following is NOT a type of AI? A. Narrow AI B. General AI C. Emotional AI D. Super AI	1

7.	Which of the following is a domain of AI?  A. Web design  B. Data entry  C. N. J.	1
8.	C. Natural Language Processing D. Plumbing What is the first stage of the AI project cycle? A. Modelling B. Evaluation C. Problem Scoping D. Deployment	1
9.	Which of these is part of the 4Ws Problem Canvas?  A. What is the weather?  B. Who are the stakeholders?  C. When will exams start?  D. Why is AI costly?	1
10.	Which of the following is an ethical concern in AI?  A. High speed  B. Free internet  C. Bias in data and decision-making  D. AI speaking many languages	1
11.	What is the purpose of Evaluation in AI?  A. To change the topic  B. To check the performance and accuracy of the model  C. To decorate the model  D. To skip the testing part	1
12	SECTION - B What is oral communication?	2
13	Write two disadvantage of non-verbal communication?	2
14	What is NLP?	2
15	Write any two issues and concerns related to AI?	2
16	What is confusion matrix?	2
17	What is Data Acquisition?	2
	SECTION – C	
18	Differentiate between weak AI and strong AI.	3
19	Give any three important applications of AI in real life.	3
20	A school is planning to develop a smart digital assistant to help students and staff with tasks like answering questions, marking attendance using face recognition, and sending automated reminders. The school also wants this system to work 24/7 without needing constant human supervision.  Based on the above situation answer the following:	3

- 1. Identify and explain any two AI domains involved in this system.
- 2. Mention **one advantage** of using AI in this project.
- 3. Explain how **Natural Language Processing (NLP)** will help the assistant communicate with users.

A group of students is working on an AI project to help reduce food waste in their school canteen. They plan to collect daily data on leftover food, analyze it to find patterns, and then suggest how much food should be prepared in future. They aim to develop a simple app that gives daily predictions.

Based on the above project answer the following questions:

- 1. Identify and explain any two stages of the AI Project Cycle used by the students.
- 2. Why is problem scoping important before collecting data?
- 3. What kind of data will be useful in this project?

\*\* ALL THE BEST! \*\*