Maharaja Agrasen Model School, Pitampura, Delhi Mid Term Examination | (Sample Paper) Class IX (2024-25)

Subject - Artificial Intelligence (CBSE Subject Code : 417)

Max Marks : 50 Time Allowed: 2 Hours

Blueprint(Mid Term)

SNO	Chapters	Marks	1 Mark	2 Mark	4 Marks
1.1	Al Reflection and Domains	25	10	4x2=8	2x4=8
1.2	Project Cycle	25	10	3x2=6	2x4=8
	Total	50	20	14	16

	Section - A (MCQ) (20 Marks)			
1.	Which of the following is a benefit of AI? A) Active learning B) Cultural diversity C) Emotional intelligence D) Automation			
	2. Which conference first coined the term AI? A) MIT Conference B) Harvard Conference C) Stanford Conference D) Dartmouth Conference			
	3. What is the ability of AI to analyze data at a faster rate than humans? A) Decision-Making B) Interpersonal Skills C) Analysis D) Creativity			
	4. Which type of AI system replicates human intelligence for a dedicated purpose? A) Generalize knowledge B) Alter and adapt to circumstances C) Narrow/ weak AI D) Broad AI			
	5. What is the function of a smart chatbot?			

- A) Analyzing data
- B) Simulate near-human interactions with customers
- C) Ordering pizza
- D) Understanding natural language
- 6. In which year was ELIZA, the first natural language programming-based conversation program described?
- A) 1966
- B) 1976
- C) 1986
- D) 1956
- 7. What method of inquiry is the Turing Test used for?
- A) Analyzing data at a faster rate
- B) Automating repetitive tasks
- C) Determining if a computer can think like a human
- D) Replicating human intelligence for a dedicated purpose
- 8. What are the applications of AI in vision systems?
- A) Optimizing conversation bots
- B) Executing dangerous tasks
- C) Analyzing financial investments
- D) Understanding and describing visual input on the computer
- 9. What is the first stage of the AI project cycle?
- A) Data Exploration
- B) Problem Scoping
- C) Modeling
- D) Data Acquisition
- 10. What is the main focus of Problem Scoping?
- A) Collecting data
- B) Designing algorithms
- C) Identifying the problem and setting a vision to solve it
- D) Testing the project
- 11. What kind of questions can be answered using Question Answering?
- A) Questions about computer vision applications
- B) Questions about natural language processing techniques
- C) Questions asked by humans in natural language
- D) Questions about machine learning algorithms
- 12. What is Speech Recognition used for?
- A) Detecting named entities in a paragraph
- B) Translating text from one language to another
- C) Analyzing sentiment and emotional state
- D) Converting spoken words into text

- 13. What is the purpose of the Problem Statement Template in the Al project cycle?
- A) To collect data
- B) To summarize the 4Ws and provide a clear problem definition
- C) To design the AI model
- D) To explore data
- 14.In the Data Acquisition stage, what does "Acquisition" refer to?
- A) Processing data
- B) Analyzing data
- C) Acquiring data from relevant sources
- D) Visualizing data
- 15. What does NLP help users do?
- A) Automatically generate human-like interactions
- B) Ask questions about any subject and get direct responses within seconds
- C) Inform computers about human languages
- D) Filter out unnecessary and unwanted information
- 16. Which of the following is an example of structured data?
- A) Youtube videos
- B) Facebook photos
- C) Cricket scoreboard
- D) Dashboard data
- 17. What type of data is a combination of structured and unstructured data?
- A) Numeric Data
- B) Text Data
- C) Semi-Structured Data
- D) Basic Data
- 18. What is the main goal of Data Exploration in the Al project cycle?
- A) Collecting raw data
- B) Visualizing data to identify trends, relationships, and patterns
- C) Testing the AI model
- D) Writing the final report
- 19. Which of the following Al approaches involves feeding the machine with data and rules?
- A) Learning-Based Approach
- B) Rule-Based Approach
- C) Data Exploration
- D) Data Acquisition
- 20. Which of the following statements is true about the Learning-Based Approach?
- A) The machine follows predefined rules given by the developer.
- B) The machine designs its own algorithms based on the data and desired output.
- C) It does not require any data to train the machine.
- D) It is the same as the Rule-Based Approach.

	Section - B				
2.	How do you think AI is already impacting your present-day life? Give example	2			
3.	Do you think that AI will impact jobs in future? Justify your answer.	2			
4.	What is the Turing Test?	2			
5.	When was the first chatbot invented? Give its name as well.	2			
6.	What can be the authentic sources while collecting data?	2			
7.	Why is data visualization important in the Data Exploration stage?	2			
8.	Differentiate between structured and unstructured data with examples.	2			
	Section - C				
9.	Explain the relationship between Artificial Intelligence, Machine Learning and Deep Learning.	4			
10.	Describe the difference between the Rule-Based and Learning-Based approaches in AI. Provide examples of each.	4			
11.	How many domains of Al are there? Explain them.	4			
12.	List four applications of NLP.	4			