

Mid Term Examination (2022-23)

Class IX

Sample Paper

Subject - Artificial Intelligence

Max Marks : 50 Time Allowed: 2 Hours

Section - A (MCQ) (20 Marks)	
1.	<p>1. Which of the following is a benefit of AI? A) Active learning B) Cultural diversity C) Emotional intelligence D) Automation</p> <p>2. Which conference first coined the term AI? A) MIT Conference B) Harvard Conference C) Stanford Conference D) Dartmouth Conference</p> <p>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</p> <p>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</p> <p>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</p> <p>6. In which year was ELIZA, the first natural language programming-based conversation program described? A) 1966 B) 1976 C) 1986 D) 1956</p> <p>7. What method of inquiry is the Turing Test used for?</p>

- 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. Which country has set up a discussion paper on National AI strategy? A) India

- B) Japan
- C) China
- D) United States

10. What skills are important to acquire to stay relevant in future workplaces? A) Emotional intelligence

- B) Leadership skills
- C) Analytical thinking
- D) Interpersonal skills

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 Machine Translation?

- A) Translating text or speech from one natural language to another
- B) Converting written words into speech
- C) Analyzing the sentiment of a text
- D) Detecting spam emails

14. What is the aim of Spam Detection?

- A) Transcribing spoken words into written text
- B) Automatically answering questions asked by humans
- C) Detecting unwanted emails and preventing them from reaching a user's inbox
- D) Analyzing user opinions and attitudes

15. What does NLP help users do?

	<p>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</p> <p>16. What is an advantage of NLP? A) It shows context in language processing B) It helps companies improve documentation processes, accuracy, and information retrieval from large databases C) It requires fewer keystrokes for text input D) It adapts easily to new domains</p> <p>17. What is a disadvantage of NLP? A) It is highly adaptable to new domains B) It might require more keystrokes for text input C) It has a limited function and is built for specific tasks only D) It provides too much contextual information</p> <p>18. What is Computer Vision? A) The study and application of algorithms for image and video recognition B) The ability of computers to process and analyze visual information C) The technology of AI with which robots can see D) The process of capturing and analyzing visual data using sensors</p> <p>19. Which industry is not using Computer Vision? A) Banking B) Healthcare C) Agriculture D) All of above</p> <p>20. What do machines require to recognize things accurately using Computer Vision? A) High-speed processors B) Advanced algorithms C) Complex computation models D) A lot of information</p>	
	Section - B	
2.	How do you think AI is already impacting your present-day life? Give example	2
3.	Do you think that AI and Big Data are related and dependent on each other? How?	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.	What are the challenges faced with respect to computer vision?	2
8.	How is sentence segmentation different from word tokenization in NLP?	2
Section - C		
9.	Explain the four skills it is important to acquire to stay relevant in the future workplace.	4
10.	What are the typical benefits of chatbots for a business?	4
11.	How many domains of AI are there? Explain them.	4
12.	List four applications of NLP.	4