

# Indian School Al Wadi Al Kabir

# Mid Term Examination

**ARTIFICIAL INTELLIGENCE (CODE: 417)** 

Class: IX
Date: 14/09/2023
Time: 2 Hour
Max. Marks: 50

General Instructions:

**SECTION A**: I. All Questions are compulsory.

**SECTION B**: II. Answer any 5 out of the given 6 questions each carries 2 marks.

III. Answer any 4 questions out of given 5 questions each carries 4 marks.

### **SECTION A: OBJECTIVE TYPE QUESTIONS**

Answer all the following:  1. Artificial Intelligence is about	(24 x 1 =24 marks)		
a. Playing a game on Computer	b. Programming on Machine with your Own Intelligence		
c. Putting your intelligence in Mac	hine d. Making a machine Intelligent		
2 is an AI game base	d on data science.		
a. Rock, Paper, Scissors b. Akina	tor with alexa c. Emoji Scavenger d. None of the above		
3. Which of these an ethical concern	for humans		
a. Data privacy b. Moral Issu	ues c. AI bias d. All the above		
4. This is a program that allows the computer to simulate conversation with a human being:			
a. Speech Application Program Int	erface b. Chatbot		
c. Voice Recognition	d. Speech Recognition.		
. Natural language processing has two subfields, namely:			
a. algorithmic and heuristic	b. time and motion		
c. understanding and generation	d. symbolic and numeric		
is a branch of artificial intelligence that allows computers to learn and develop withou			
being explicitly programmed.			
a. Machine Learning b. Natural	Language Processing c. Expert System d. Computer Vision		
	<b>1</b>   P a g e PT O		

	<b>2  </b> Page PTO	
	a. Evaluation b. Learning c. Decision d. None of the above	
14	. After a model has been created and trained, it must be thoroughly tested in order to determine its efficience and performance; this is known as	Э
	refers to AI modeling in which the developer hasn't specified the relationship or patterns in the dat a. Learning Based b. Rule Based c. Decision Tree d. None of the above	
12	. If data is easily accessible by humans and program, and easy to read is known as  a. Structured Data b. Unstructured Data c. Both a) and b) d. None of the above	
11	a. What are the 4 W's of problem scoping in AI.  a. Who & What b. Where c. Why d. All of the above	
10	. Which of the following is not a stage in the AI Project Cycle: a. Problem Scoping b. Data Acquisition c. Data Exploration d. Prototyping	
9.	The situation that is created by a system itself and the developer of the system cannot resolve them is known as  a. Unemployment b. Inequalities c. Negative Adoptions d. Black Box problem	
8.	Amazon had been working on a secret AI recruiting tool. The machine-learning specialists uncovered a big problem: their new recruiting engine did not like women. The system taught itself that male candidates were preferable. It penalized resumes that included the word "women". This led to the failure of the tool. This is an example of a. Data Privacy b. AI access c. AI Bias d. Data Exploration	1
7.	A leading multinational company operates on a chain of hypermarkets and grocery stores deployed an A application to make it easier for employees to keep their stores running smoothly. They used thousand of video cameras, weighted sensors on shelves, and other technologies that can tell employees who certain products is starting to go bad. One of the task of the application is to identify bananas that has started to turn brown, eliminating the need for employees to manually inspect fruit. Which of the following domain is used to achieve this?  a. Data sciences  b. Computer vision  c. Natural Language Processing  d. Fuzzy logic	ds en ad
7	A loading multipational company appears and about of hymeropathete and appears stone deployed an	ΑТ

15. The method of collecting correct and dependable data to work with is known as			
16 dataset is a large dataset that is used for teaching a machine learning model.			
17. Statement 1: Where block helps you to focus on the context/situation/location of the problem.			
Statement 2: What block helps you need to determine the nature of the problem.			
a) Statement1 is correct and Statement2 is incorrect			
b) Statement2 is correct and Statement1 is incorrect			
c) Both Statement1 and Statement 2 are incorrect			
d) Both Statement1 and Statement 2 are correct			
18 allows computers and systems to extract useful information from digital photos, videos,			
and other visual inputs.			
a. Data Science b. Natural Language Processing c. Computer Vision d. All of the above			
19. A is a flexible house setup in which appliances and devices may be managed remotely using a mobile or other networked device from anywhere with an internet connection.			
a. Smart Home b. Smart City c. Smart Class d. None of the above			
20. What skills required when you are working as AI professional.			
a. Training to become a expertise b. Good knowledge of Math and Science			
c. Required Programming Languages d. All of the above			
Oestions 21-24 Match List 1 with list 2			

## **Qestions 21-24 Match List 1 with list 2**

List 1	List 2
21. SDG 10	a) Climate Change
22. SDG 13	b) Life on Land
23. SDG 14	c) Reduced Inequalities
25. SDG 15	d) Life below Water

### **SECTION B: SUBJECTIVE TYPE QUESTIONS**

### II. Answer any 5 out of the given 6 questions

 $(5 \times 2 = 10 \text{ marks})$ 

- 25. How AI can help in attaining SDG11
- 26. List any 4 basic skills that anyone should have for building a career in AI?
- 27. Explain any one example of possibilities of AI technology for customer experience.
- 28. What is Rule based Learning?
- 29. Define Problem statement template.
- 30. Explain Data Exploration stage.

#### III. Answer any 4 questions out of given 5 questions

(4x 4 = 16 marks)

- 31. Explain any four components of a good AI policy.
- 32. AI and robotics have raised some questions regarding liability. Take for example the scenario of an 'autonomous' or AI-driven robot moving through a factory. Another robot surprisingly crosses its way and our robot draws aside to prevent collision. However, by this maneuver the robot injures a person.
  - a) Who can be held liable for damages caused by autonomous systems? List two AI Ethics.
- 33. Differentiate Artificial Intelligence, Machine Learning and Deep Learning.
- 34. Suhana works for a company wherein she was assigned the task of developing a project using AI project cycle. She knew that the first stage was scoping the problem. Help her list and explain the remaining stages that she must go through to develop the project.
- 35. Differentiate Supervised and Unsupervised learning with examples