

## ST. MARGARET SR. SEC. SCHOOL ANNUAL EXAMINATION 2024-25 SUBJECT:ARTIFICIAL INTELLIGENCE (417) CLASS: IX SAMPLE PAPER

## Time: 2Hr IMPORTANT INSTRUCTIONS:

M.M: 50

1x15 = 15

The Question Paper consists of four sections: Section A ,B,C and D.

• The Question paper consists of 28 questions in total.

• Section A has Objective type questions whereas Section B,C and D contains Subjective type questions.

- Section A consists of 15 questions (Q1 to Q15). Each question carries 1 Mark.
- Section B consists of 6 questions (Q16 to Q21). Each question carries 2 Mark.
- Section C consists of 5 questions (Q22 to 26). Each question carries 3 Mark.
- Section D consists of 2 questions (Q27 to Q28). Each question carries 4 Mark

• All questions of a particular section must be attempted in the correct order

## SECTION A

Multiple Choice Questions (Write the correct answer)

1. \_\_\_\_\_\_method involves training a model using labelled data.a. Supervised learningb. Unsupervised Learningc. Clustering

2. Likely, unlikely, certain and \_\_\_\_\_\_are the events of the probability.

a.Unacheivable b. Impossible c.Prohibited

3. \_\_\_\_\_ can be used to manipulate videos, creating realistic but false representations of people.

- a. Deep Fake b. Generative Adversarial Networks c. Autoencoder
- 4. State True and False :

"Generative AI models use vast libraries of samples to train neural networks and other complicated structures to produce new content based on those patterns."

5. Map applications like Google Maps use probability\_\_\_\_\_\_.

a. To play music in the background

b.To predict traffic congestion based on past and real-time data

c. To randomly select destinations

6. Assertion (A): Election outcomes can be predicted using probability.

Reason (R): Political analysts use probability models based on polling data and historical trends to estimate election results.

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 false, but R is true.

7. In the Data Pyramid, 'Wisdom' represents\_\_\_\_\_\_.

a. Raw data collected from various sources.

b. Processed data that provides information.

c. Understanding why things are happening in a particular way

8. \_\_\_\_\_data is used in Computer Vision domain of AI

a. Images and videos b. Textual c. Numeric

<ol> <li>9 is the correct order of key elements of 4Ws Problem Canvas.</li> <li>a. Who, What, where and Why</li> <li>b. Why, What, Where and Who</li> <li>c. Who, What, Why and Where</li> </ol>			
10facial a.Anger b. Dis	expression is typically o sgust	characterized by a s Happiness	mile.
11.Muse Ai tool is used to generatea. Textb. Videoc.Productivity			
12. Characteristic of Entre a. Creative Activity	preneurship is b. Risk Bearing	c. Both of th	ese
13type a. Sprinkler irrigation	of irrigation is used to b. Crop Rota	conserve water. tion c. <sup>-</sup>	Terracing
14as the final stage in the AI project cycle where the AI model or solution is implemented in a real-world scenario.a. Data Acquisitionb. Deploymentc. Evaluation			
<ul> <li>15 referred to as information privacy, concerned with the proper handling of sensitive data.</li> <li>a. Data Security b. Data Literacy c. Data Privacy</li> <li>SECTION B 2x6=12</li> <li>16. Write about any two applications areas where statistics is used?</li> <li>17. How is ICT used in our daily life?</li> <li>18. Discuss any two limitations of Generative AI?</li> <li>19. Mention various methods and practices to conserve Air.</li> <li>20. Differentiate between Self Esteem and Self Monitoring.</li> <li>21. Name various sources for acquiring data. Also give example of each.</li> </ul>			
Section C 22. Write about the follow a. GANs 23.a. What is Pattern? b. How AI and Maths a 24. Define Entrepreneursh 25. Write about various AI 26. State the difference be	b.RNN re interconnected? ip. State various roles models.		<b>3x5=15</b> Pata.
Section D 27. Write about the follow	-		4x2=8
a. Data Exploration 28. How does Generativ a. Creativity	b. Modelling ve AI enhance the follow b. Accessibility	c. Machine Learning g aspects: c. Exploration	d. Cyber Security d.Personalization