

** SINDHI HIGH SCHOOL, HEBBAL**

**PERIODIC TEST-3[2022-23]**

**SUBJECT: AI(417)-ANSWERSCRIPT**

**Class: IX Max Marks: 25**

**Date: 15. 12 .2023 Writing Time: 1 HR**

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|  | **Section A** |  |
|  | **Section A consists of 18 questions of 1 mark each.** |  |
| 1 | Choose the five stages of AI project cycle in correct order---  D.Problem Scoping -> Data Acquisition -> Data Exploration -> Modelling -> Evaluation | 1 |
| 2 | In “Why” block canvas, Which of the following canvases is the base of problem solving.  Ans: d. All of the above | 1 |
| 3 | \_\_\_\_\_\_\_\_\_\_\_ can be a piece of information or facts and statistics collected together for reference or analysis.  Ans: b. Data | 1 |
| 4 | Whenever we want an AI project to be able to predict an output, we need to \_\_\_\_\_\_\_ it first using data.  Ans: b. Train | 1 |
| 5 | Which of the following is one of the government open source for collecting data?--b  B.www.india.gov.in | 1 |
| 6 | What are the different ways to collect data?  Ans: d. All of the above | 1 |
| 7 | Competency based question:   1. Web scraping | 1 |
| 8 | Assertion and Reasoning Questions on Project Cycle  Assertion (A): A self-driving car is made up of a combination of sensors, cameras, radar and AI. Reason (R): The owner is liable if a self-driving car is involved in an accident  D. A is incorrect but R is correct | 1 |
| 9 | Data | 1 |
| 10 | Complete decision tree based on the classification of AI model  Deep learning—NLP, DATA, CV | 1 |
| 11 | Mark true or false:  a)e-mail spam detection is an example of supervised learning. **True**  b)forecasting the prices of gold is a classification problem. **True** | 1 |
| 12 | CHAPBOT : NLP | 1 |
| 13 | \_\_\_\_\_\_\_\_\_\_ enables software to train itself to perform tasks with vast amounts of data. [Deep Learning, Supervised Learning]  ans-deep learning | 1 |
| 14 | ANS-ai bias | 1 |
| 15. | d. All of the above | 1 |
| 16  Ans | Answer the following:  Mention the precautions to be taken while acquiring data for developing an AI  Project.  It should be from an authentic source, and accurate. Look for redundant and irrelevant  data parameters that does not take part in prediction. | 2 |
| 17 | What is the difference between Machine Learning and Deep Learning?  Machine Learning forms a subset of Artificial Intelligence, where we use statistics and algorithms to train machines with data, thereby, helping them improve with experience.  Deep Learning is a part of Machine Learning, which involves mimicking the human brain in terms of structures called neurons, thereby, forming neural networks. | 2 |
| 18 | Name the following   1. Classification 2. Government websites 3. AI bias | 3 |
| 19 | Supervised, unsupervised and re-enforcement | 3 |