



Indian School Al Wadi Al Kabir

Mid Term Examination

ARTIFICIAL INTELLIGENCE (CODE: 417)

Class: IX
Date: 29/09/2024

Time: 2 Hour
Max. Marks: 50

General instructions:

SECTION A: I. All Questions are compulsory.

SECTION B: II. Answer any 7 out of the given 9 questions each carries 2 marks.

III. Answer any 3 questions out of given 4 questions each carries 4 marks.

SECTION A: OBJECTIVE TYPE QUESTIONS

1. **Answer all the following:** (24 x 1 =24 marks)

1. What can you do to get rid of negative thoughts or feelings?

- a. Meditate to calm down and feel positive.
- b. Ignore them and move on in life.
- c. Act based on the negative thoughts or feelings.
- d. Talk to a friend and share all your negative feelings.

2. _____ is collecting data from various reliable and authentic sources.

- a. Data Acquisition
- b. Database
- c. Data Mining
- d. None of the above

3. _____ helps in analyzing the people getting affected directly or indirectly due to it.

- a. Why
- b. What
- c. Where
- d. Who

4. "Where" block will help you look into the situation in which the where it is prominent.

- a. Problem arises
- b. The context of it
- c. The locations
- d. All of the above

5. _____ can be a piece of information or facts and statistics collected together for reference or analysis.

- a. Database
- b. Data
- c. Data Type
- d. None of the above

6. After filling the 4Ws Problem canvas, you now need to summarize all the cards into one.

- a. Template
- b. Situation
- c. Both a) and b)

d. None of the above
<p>7. _____ refer to the type of data you want to collect.</p> <p>a. Data features</p> <p>b. Exploring Data</p> <p>c. Data Acquisition</p> <p>d. All of the above</p>
<p>8. You would feed the data into the machine. This is the data with which the machine can be trained. Now, once it is ready, it will predict his next data efficiently. This previous data is known as _____.</p> <p>a. Testing Data</p> <p>b. Training Data</p> <p>c. Exploring Data</p> <p>d. All of the above</p>
<p>9. One of the most reliable and authentic sources of information where we can download the authentic data for our project are _____</p> <p>a. Private websites</p> <p>b. Government websites</p> <p>c. Personal websites</p> <p>d. None of the above</p>
<p>10. _____ helps to test data so that one can calculate the efficiency and performance of the model.</p> <p>a. Evaluation</p> <p>b. Accuracy</p> <p>c. Precision</p> <p>d. None of the above</p>
<p>11. Which action is not used by sender to send the messages?</p> <p>a. Gestures</p> <p>b. Speaking</p> <p>c. Reading</p> <p>d. Writing</p>
<p>12. AI models can be classified as _____</p> <p>a. Learning Based</p> <p>b. Rule Based</p> <p>c. Both a) and b)</p> <p>d. None of the above</p>
<p>13. Which of these sentences are punctuated correctly?</p> <p>a. When is the party.</p> <p>b. I had bread omelet and a Banana for breakfast</p> <p>c. I am so excited about my first foreign trip!</p> <p>d. This is Abdul's notebook.</p>
<p>14. Can we use AI on mobile phones?</p> <p>a. YES</p> <p>b. NO</p>
<p>15. What are the stress management techniques?</p> <p>a. Time Management</p> <p>b. Physical exercise and fresh air</p>

<p>c. Healthy diet</p> <p>d. All of the above</p>
<p>16. Efficiency of the model is calculated on the basis of which parameters.</p> <p>a. F1 Score >> Recall >> Precision >> Accuracy</p> <p>b. Accuracy >> Precision >> Recall >> F1 Score</p> <p>c. Precision >> Accuracy >> F1 Score >> Recall</p> <p>d. Recall >> Precision >> Accuracy >> F1 Score</p>
<p>17. Which of these is a positive (good) facial expression?</p> <p>a. Frowning while concentrating</p> <p>b. Maintaining eye contact</p> <p>c. Smiling continuously</p> <p>d. Rolling up your eyes</p>
<p>18. _____ makes the data understandable for humans as we can discover trends and patterns out of it.</p> <p>a. Random Data</p> <p>b. Graphical Representation</p> <p>c. Unstructured Data</p> <p>d. None of the above</p>
<p>19. _____ is the example of unstructured data.</p> <p>a. School time table</p> <p>b. Exam datesheet</p> <p>c. Videos</p> <p>d. None of the above</p>
<p>20. When the Reality is Yes but the machine has incorrectly predicted it as a No means, the case becomes _____.</p> <p>a. False Negative</p> <p>b. True Positive</p> <p>c. False Positive</p> <p>d. True Negative</p>
<p>21. Self-management, also known as _____, is the ability to effectively control one's emotions, behavior and thoughts.</p> <p>a. Self – design</p> <p>b. Self – innovative</p> <p>c. Self – control</p> <p>d. None of the above</p>
<p>22. Ethics is _____</p> <p>a. The guiding principles to decide what is good and what is bad.</p> <p>b. The beliefs dictated by our society</p> <p>c. Values that a person themselves chooses for their life.</p> <p>d. They can be different for different societies.</p>
<p>23. Which of these sentences is in active voice?</p> <p>a. A movie is being watched by them.</p> <p>b. The car was repaired by Raju.</p> <p>c. He is reading a book.</p> <p>d. The thief was being chased by a policeman.</p>

24. _____ shows trends over time by connecting data points with straight lines. It's especially useful for showing changes over a period and trends.

- a. Histogram
- b. Scatter plot
- c. Line graph
- d. Bar graph

SECTION B: SUBJECTIVE TYPE QUESTIONS

II. Answer any 7 out of the given 9 questions

(7 x 2 = 14 marks)

25. Name any four stress management techniques.
26. What is a problem statement template and what is its significance?
27. Explain 4 disadvantages of written communication?
28. Differentiate between Interests and Abilities.
29. What is deployment?
30. Define a sentence. What are the Kinds of sentences (according to their purpose)?
31. Explain deep learning.
32. Define evaluation.
33. Write the four steps for effective Time management.

III. Answer any 3 questions out of given 4 questions

(3x 4 = 12 marks)

34. Explain the 4 principles in AI Ethics that affect the quality of AI solutions.
35. Explain the terms: <ul style="list-style-type: none">a. True Positiveb. True Negativec. False Positived. False Negative
36. Write the differences between AI, DL and ML.
37. Explain any 4 data sources in data acquisition stage.

***** ALL THE BEST *****