INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2023
ARTIFICIAL INTELLIGENCE- 417

CLASS : X

DATE: 21-09-2023

TIME ALLOTED   : 2 HRS.

MAXIMUM MARKS: 50

GENERAL INSTRUCTIONS:
- **Please read the instructions carefully.**
- **This Question Paper consists of two sections: Section-A & Section-B.**
- **Section-A has Objective type questions whereas Section-B contains Subjective type questions.**
- **Section-A – Objective Type Questions (22 Marks)**
- **Section-B – Subjective Type Questions (28 Marks)**

SECTION-A(OBJECTIVE TYPE QUESTIONS)

(1x 22 = 22 marks)

1. Ameesha gets up at 5 am and goes to her badminton classes. Then she comes home and finishes her homework before going to school. She prioritize the things you have to do on time. This is an example of   1
   a) Time Management
   b) External motivation
   c) Both self and external motivation
   d) Not any specific type of motivation

2. Which of the following can cause stress?   1
   a) Yoga and meditation
   b) Driving during rush hour
   c) Organized academic life
   d) Enjoying holidays with family

3. What is the term used when you quickly click the left mouse button twice?   1
   a) Hover   b) Drag and drop   c) Double clicking   d) Moving

4. Which of the following is not a navigation key?   1
   a) PAGE UP   b) HOME   c) PAGE DOWN   d) INSERT

5. _____ is an AI based applications that help us in navigation.   1

6. "This type of intelligence is related to the ability to process information around us". Identify the type of intelligence described in the above sentence.   1

7. Which of the following is not an AI domain?   1
   a) IOT   b) Data Sciences
   c) Natural Language Processing   d) Computer Vision

8. E-Mail filters are the most basic and initial application of   1
   a) Data Science   b) Natural Language Processing   c) Computer Vision   d) Data Gathering

9. _____refers to a set of moral principles and guidelines to be applied in developing solutions and use of artificial intelligence technologies.   1

10. When a user installs an app in the smartphone, it asks for access to gallery, contacts, etc. After accepting this, it gives the user agreement which most users accept without realizing the implications. What is the concern here?   1
    a) Data Privacy   b) Unemployment   c) AI Bias   d) No concern

11. We can't make "good" decisions without information. (True/False)   1

12. The _____ is the summary of all the key points of 4W's into one single template. If the same problem occurs in the future, this template helps to fix it easily.   1

13. The _____Sustainable Development Goals (SDGs) were launched at the United Nations Sustainable Development Summit in New York in the year 2015, forming the 2030 Agenda for Sustainable Development.   1
    a) 15   b)17   c) 18   d)19

14. Smita is going to take up a project. Which of the following should she do first to go ahead with the project?   1
    a) Data Acquisition   b) Modelling   c) Problem Scoping   d) Evaluation

15. _____ refers to the AI modelling where the rules are defined by the developer.   1

16. Sunil wants to predict the next salary of employees in an organization. He has been collecting their previous salaries, any increments etc. Which AI model approach he is following to predict the next salary?   1
    a) Regression   b) Clustering   c) Dimensionality Reduction   d) Classification

17. _____ is a machine learning training method based on rewarding desired behaviors and/or punishing undesired ones.   1

18. Which of the following is the type of data used by NLP applications?   1
    a) Images   b) Numerical data   c) Graphical Data   d) Text and speech

19. Identify the type of applications of NLP with the information given below: 1
    This is especially relevant when used to provide an overview of a news item or blog post, while avoiding redundancy from multiple sources and maximizing the diversity of content obtained.

20. _____is to identify sentiment among several posts or even in the same post where emotion is not always explicitly expressed.   1

21. One of the most common applications of NLP is_____ 1
    a) IOT   b) Chatbot   c) Sensors   d) Camera

22. Now a days _____ have become an integral part of our lives. Not only can we talk to 1
    them but they also have the abilities to make our lives easier.

SECTION-B (SUBJECTIVE TYPE QUESTIONS)
(28 Marks)

23. Neha was learning about self-management. She wanted to know about the four skills 2
    needed to succeed in life. Help her by explaining the four skills.

24. What is emotional intelligence? Explain any two skills for it. 2

25. Sameera wants to learn about punctuation keys used in the computer keyboard. Explain the 2
    punctuation keys which are used in the computer keyboard.

26. Explain about 'data science' and 'computer vision'. 2

27. Anil wants to learn about machine learning and deep learning. Explain each. 2

28. Explain about clustering and dimensionality reduction. 2

29. Differntiate between script-bot and smart-bot. 2

30. Explain about text classification with an example. 2

31. Akhil is amazed to learn about his sister Pooja who is multi-talented and has excelled in 4
    academics, music, dancing, sports and painting. He was quite curious when Pooja told him that
    he too possessed all these intelligences like every human being does, but only at different levels.
    He wondered which intelligence she was talking about. Can you help Akhil in learning about
    different types of intelligences by naming and explaining any four types of intelligences?

32. Kevin attended a seminar on Artificial Intelligence and has now been asked to write a report on 4
    his learnings from the seminar. Being a non-technical person, he understood that the AI enabled
    machine uses data of different formats in many of the daily based applications . Help Kevin
    define AI Project Cycle, Data Acquisition, Data Exploration and Modelling.

33. Sameeha, a student of class X was exploring the Natural Language Processing domain. She 4
    need to know about human language versus computer language. Help her to understand the
    difference between human language and computer language with proper explanation.

****END OF THE QUESTION PAPER****

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SECTION-A(OBJECTIVE TYPE QUESTIONS)
(1x 22 = 22 marks)

1. Anusa works in a company. She attends all training programmes conducted by the company and updates her with the latest emerging technologies which enhances her career. Which of the following skills she has to succeed in life   1
    a) Adaptability   b) Time Management
    c) External motivation   d) Not any specific type of motivation

2. Which of the following cannot cause stress?   1
    a) Confronting with people   b) Driving during rush hour
    c) Unorganized academic life   d) Enjoying holidays with family

3. What is the term used when you select an icon by clicking the left mouse button once?   1
    a) Hover   b) Point and click   c) Double clicking   d) Moving

4. Which of the following is not a control key?   1
    a) SHIFT   b) ALT   c) TAB   d) ENTER

5. _____ is an AI based applications that help us in navigation.   1

6. "This type of intelligence is related to the ability to process information around us".   1
    Identify the type of intelligence described in the above sentence.

7. Which of the following is not an AI domain? 1
   a) IOT
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8. E-Mail filters are the most basic and initial application of 1
   a) Data Science   b) Natural Language Processing   c) Computer Vision   d) Data Gathering

9. _____refers to a set of moral principles and guidelines to be applied in developing solutions and use of artificial intelligence technologies. 1

10. When a user installs an app in the smartphone, it asks for access to gallery, contacts, etc. After accepting this, it gives the user agreement which most users accept without realizing the implications. What is the concern here? 1
    a) Data Privacy   b) Unemployment   c) AI Bias   d) No concern

11. We can't make "good" decisions without information. (True/False) 1

12. The _____ is the summary of all the key points of 4W's into one single template. If the same problem occurs in the future, this template helps to fix it easily. 1

13. The _____Sustainable Development Goals (SDGs) were launched at the United Nations Sustainable Development Summit in New York in the year 2015, forming the 2030 Agenda for Sustainable Development. 1
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14. Smita is going to take up a project. Which of the following should she do first to go ahead with the project? 1
    a) Data Acquisition b) Modelling   c) Problem Scoping   d) Evaluation

15. _____ refers to the AI modelling where the rules are defined by the developer. 1

16. Sunil wants to predict the next salary of employees in an organization. He has been collecting their previous salaries, any increments etc.Which AI model approach he is following to predict the next salary? 1
    a) Regression   b) Clustering   c) Dimensionality Reduction   d) Classification

17. _____ is a machine learning training method based on rewarding desired behaviors and/or punishing undesired ones. 1

18. Which of the following is the type of data used by NLP applications? 1
    a) Images   b) Numerical data   c) Graphical Data   d) Text and speech

19. Identify the type of applications of NLP with the information given below: 1
    This is especially relevant when used to provide an overview of a news item or blog post, while avoiding redundancy from multiple sources and maximizing the diversity of content obtained.

20. _____is to identify sentiment among several posts or even in the same post where emotion is not always explicitly expressed. 1

21. One of the most common applications of NLP is_____ 1
a) IOT b) Chatbot c) Sensors d) Camera

22. Now a days _____ have become an integral part of our lives. Not only can we talk to 1
them but they also have the abilities to make our lives easier.

SECTION-B (SUBJECTIVE TYPE QUESTIONS)
(28 Marks)

23. Subha was learning about self-management. She wanted to know about the stress 2
management methods. Help her by explaining any four stress management methods.

24. What is emotional intelligence? Explain any two steps to manage emotional intelligence. 2

25. Sulekha wants to learn about function keys used in the computer keyboard. Explain the 2
function keys which are used in the computer keyboard.

26. Explain about 'data science' and 'computer vision'. 2

27. Anil wants to learn about machine learning and deep learning. Explain each. 2

28. Explain about clustering and dimensionality reduction. 2

29. Differntiate between script-bot and smart-bot. 2

30. Explain about text classification with an example. 2

31. Akhil is amazed to learn about his sister Pooja who is multi-talented and has excelled in 4
academics, music, dancing, sports and painting. He was quite curious when Pooja told him that
he too possessed all these intelligences like every human being does, but only at different levels.
He wondered which intelligence she was talking about. Can you help Akhil in learning about
different types of intelligences by naming and explaining any four types of intelligences?

32. Kevin attended a seminar on Artificial Intelligence and has now been asked to write a report on 4
his learnings from the seminar. Being a non-technical person, he understood that the AI enabled
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33. Sameeha, a student of class X was exploring the Natural Language Processing domain. She 4
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****END OF THE QUESTION PAPER****

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SECTION-A(OBJECTIVE TYPE QUESTIONS)
(1x 22 = 22 marks)

1. Athulya works in a company. She always accepts new assignments given to her and she make   1
    sure that the given it is completed on time.
    Which of the following skills she has to succeed in life
    a) Responsibility   b) Time Management
    c) External motivation   d) Not any specific type of motivation

2. Which of the following can cause stress?   1
    a) Positivity   b) Waiting 2 Hrs in a traffic jam
    c) Organized academic life   d) Enjoying holidays with family

3. What is the term used when you bring the mouse over an icon and wait a second to get in   1
    the details of the file?
    a) Hover   b) Point and click   c) Double clicking   d) Moving

4. Which of the following is not a command key?   1
    a) INSERT   b) DELETE   c) BACKSPACE   d) END

5. _____ is an AI based applications that help us in navigation.   1

6. "This type of intelligence is related to the ability to process information around us".   1
    Identify the type of intelligence described in the above sentence.

7. Which of the following is not an AI domain?
   a) IOT
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8. E-Mail filters are the most basic and initial application of
   a) Data Science   b) Natural Language Processing   c) Computer Vision   d) Data Gathering

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9. _____refers to a set of moral principles and guidelines to be applied in developing solutions and use of artificial intelligence technologies.

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10. When a user installs an app in the smartphone, it asks for access to gallery, contacts, etc. After accepting this, it gives the user agreement which most users accept without realizing the implications. What is the concern here?
    a) Data Privacy   b) Unemployment   c) AI Bias   d) No concern

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11. We can't make "good" decisions without information. (True/False)

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12. The _____ is the summary of all the key points of 4W's into one single template. If the same problem occurs in the future, this template helps to fix it easily.

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13. The _____Sustainable Development Goals (SDGs) were launched at the United Nations Sustainable Development Summit in New York in the year 2015, forming the 2030 Agenda for Sustainable Development.
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22. Now a days _____ have become an integral part of our lives. Not only can we talk to them but they also have the abilities to make our lives easier. 1

SECTION-B (SUBJECTIVE TYPE QUESTIONS)

(28 Marks)

23. Shreya was learning about self-management. She wanted to know about stress and the three steps to manage stress. Help her by explaining stress and the three steps to manage it. 2

24. What is emotional intelligence? Explain any two steps to manage emotional intelligence. 2

25. Sabitha wants to learn about enter key used in the computer keyboard. Explain the use of enter key in the computer keyboard. 2

26. Explain about 'data science' and 'computer vision'. 2

27. Anup wants to learn about what is not AI. Explain. 2

28. Explain about clustering and dimensionality reduction. 2

29. Differntiate between script-bot and smart-bot. 2

30. Explain about text classification with an example. 2

31. Akhil is amazed to learn about his sister Pooja who is multi-talented and has excelled in academics, music, dancing, sports and painting. He was quite curious when Pooja told him that he too possessed all these intelligences like every human being does, but only at different levels. He wondered which intelligence she was talking about. Can you help Akhil in learning about different types of intelligences by naming and explaining any four types of intelligences? 4

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33. Sameeha, a student of class X was exploring the Natural Language Processing domain. She need to know about human language versus computer language. Help her to understand the difference between human language and computer language with proper explanation. 4

****END OF THE QUESTION PAPER****