INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION 2023
ARTIFICIAL INTELLIGENCE
(SUB.CODE :417)

CLASS : IX
DATE: 19-09-2023

TIME ALLOTED   : 2 HRS.
MAXIMUM MARKS:50

GENERAL INSTRUCTIONS:
There are two sections : Section A and Section B
All questions are compulsory.
Programming language : Python

SECTION A: OBJECTIVE TYPE QUESTIONS

1. Neeraj had difficulty in speaking English. He, therefore, avoided talking to his classmates. He believed that he can learn English by joining English speaking classes and in few days he was able to speak English fluently. Which of the following quality is he demonstrating?   1

    a) Personal hygiene and grooming
    b) Self-control
    c) Self-confidence
    d) Team work

2. Raj prioritizes tasks according to the time allocated to increase productivity and efficiency. What type of self management skill is it?   1

3. Find the odd one out: 1
    a) Printer   b)Projector   c) Web camera   d) Speaker

4. _____ displays enlarged output in a magnified form.   1

5. Mystery animal is a game based on _____ .   1

6. Self driving cars are examples of _____ .   1

7. Name the very first humanoid.   1

8. Machines become intelligent once they are _____ which helps them achieve their tasks.   1

9. _____is the prompt of Python and ____ is the extension of Python file.   1

10. _____ is the process by which we figure out the problem that we need to solve.   1

a) Modeling
b) Problem Statement Template
c) Data Exploration
d) Problem Scoping

11. _____ is the process of collecting accurate and reliable data for the project.   1

12. _____ helps us to summarise all the key points into one single Template so that in future,   1
whenever there is need to look back at the basis of the problem, we can take a look at this and
understand the key elements of it.

a) Modeling
b) Problem Statement Template
c) Data Exploration
d) Problem Scoping

13. The 4 Ws of the 4W problem scoping are: 1

a) Who, What, Where and Why
b) Who, What, When and Why
c) Who, What, Where and When
d) Who, Where, When and Why

14. _____ is the data type returned by the following statement.   1

>>>type([2,44,22,7,22])

   a) str   b) int   c) float   d)list

15. 2+3j is an example of _____ data type in Python.   1

16. _____ type of data is returned by input() function.   1

17. Which out of the following is not a valid data type: 1
   a) Float
   b) Number
   c) String
   d) List

18. A _____ is a reserved word with special meaning in a programming language.   1

19. A name associated with some value.   1

   a) print
   b) Expression
   c) Statement
   d) Variable

20. Which of the following is not a sequence data type?   1
    a) List
    b) Tuple
    c) Dictionary
    d) String

SECTION B: SUBJECTIVE TYPE QUESTIONS

21. Explain   a) Self Reinforcement   b) Stress Management   2

22. What are the benefits of self management skills?   2

23. Explain the function and parts of CPU.   2

24. Explain the two modes of Python shell.   2

25. Explain any two AI Domains.   2

26. Name the components of AI project Cycle. Explain any two components.   2

27. Explain the difference between / and // with an example.   2

28. Write the different comparison operators used in Python. What value is returned by   2
    Comparison operator?

29. What will be the output of the two print statements in the following Python program ?   2

```
P=7
Q=2
print(P**Q)
print(P%Q)
```

30. Explain the 4 Ws of problem scoping.   4

31. Explain the if...elif statement with an example.   4

32. Write a Python program to find the distance by using formula $S=ut+1/2at^2$ 4

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

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**GENERAL INSTRUCTIONS:**
There are two sections : Section A and Section B
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Programming language : Python

SECTION A: OBJECTIVE TYPE QUESTIONS

1. The letter O in SWOT analysis stands for _____   1

2. Ram had difficulty in speaking English. He, therefore, avoided talking to his classmates. He believed that he can learn English by joining English speaking classes and in few days he was able to speak English fluently. Which of the following quality is he demonstrating?   1

   a) Self-control
   b) Team Work
   c) Personal hygiene and grooming
   d) Self Confidence

3. Find the odd one out: 1
   a) Scanner   b)Projector   c) Web camera   d) Microphone

4. Input and output devices are also called _____.   1

5. Name the very first humanoid.   1

6. Emoji Scavenger is a game based on _____.   1

7. The basis of decision making depends upon the _____ and how we experience and understand it.   1

8. _____is the prompt of Python and _____ is the extension of Python file.   1

9. Email filter is an application of _____   1

10. The 4 Ws of the 4W problem scoping are: 1

   a) Who, What, Where and When
   b) Who, What, When and Why
   c) Who, What, Where and Why
   d) Who, Where, When and Why

11. Machines become intelligent once they are _____ which helps them 1
   achieve their tasks

12. _____ is the process of collecting accurate and reliable data for the project. 1

   a) Problem Statement Template
   b) Problem Scoping
   c) Modeling
   d) Data Acquisition

13. Which out of the following is not a data type: 1

   a) Complex
   b) Tuple
   c) List
   d) Diction

14. _____ is the data type returned by the following statement. 1

   >>>type([2,44,22,7,22])

   a) List b) Str c) tuple d) int

15. 2+3j is an example of _____ data type in Python. 1

16. A _____ is a reserved word with special meaning in a programming language. 1

17. _____ helps us to summarise all the key points into one single Template so that in future, 1
   whenever there is need to look back at the basis of the problem, we can take a look at this and
   understand the key elements of it.

   a) Modeling
   b) Problem Statement Template
   c) Data Exploration
   d) Problem Scoping

18. Which of the following is not a sequence data type? 1

   a) List
   b) Tuple
   c) Dictionary
   d) String

19. A name associated with some value.   1

    a) print
    b) Expression
    c) Statement
    d) Variable

20. _____ type of data is returned by input() function.   1

SECTION B: SUBJECTIVE TYPE QUESTIONS

21. Explain the function and parts of CPU.   2

22. What are the benefits of self management skills?   2

23. Explain a) Self Reinforcement   b) Personal Management   2

24. Explain any four naming conventions used in naming identifiers.   2

25. Explain any two AI Domains.   2

26. Explain any four components of AI Project cycle.   2

27. Explain the difference between * and ** with example.   2

28. Write the different comparison operators used in Python. What value is returned by   2
Comparison operator?

29. P=13   2
    Q=5
    print(P//Q)
    print(P%Q)

30. Explain the 4 Ws of problem scoping.   4

31. Write a Python program to find the distance by using formula $S=ut+1/2at^2$ 4

32. Explain the if..elif statement with an example.   4

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

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Programming language : Python

SECTION A: OBJECTIVE TYPE QUESTIONS

1. Varun prioritizes tasks according to the time allocated to increase productivity and efficiency. What type of self management skill is it?   1

2. The letter T in SWOT analysis stands for _____.   1

3. Input and output devices are also called _____.   1

4. Find the odd one out: 1

   a) Printer   b)Projector   c) Web camera   d) Speaker

5. Machines become intelligent once they are _____ which helps them achieve their tasks.   1

6. Rock Paper Scissor is a game based on _____.   1

7. Name the very first humanoid.   1

8. Self driving cars are example of _____.   1

9. _____is the prompt of Python and ____ is the extension of Python file.   1

10. _____ is the process by which we figure out the problem that we need to solve.   1

   a) Data Exploration

b) Modelling
c) Problem scoping
d) Problem Statement Template

11. _____ is the process of collecting accurate and reliable data for the project.   1

12. _____ helps us to summarise all the key points into one single Template so that in future,   1
whenever there is need to look back at the basis of the problem, we can take a look at this and
understand the key elements of it.

a) Modeling
b) Problem Statement Template
c) Data Exploration
d) Problem Scoping

13. The 4 Ws of the 4W problem scoping are: 1

a) Who, What, Where and Why
b) Who, What, When and Why
c) Who, What, Where and When
d) Who, Where, When and Why

14. Which of the following is not a sequence data type?   1
    a) List
    b) Tuple
    c) Dictionary
    d) String

15. Which out of the following is used for representing numbers with decimal point?   1
    a) float
    b) list
    c) int
    d) complex

16. _____ is known as modulus operator used to find remainder of division.   1

17. 7-3j is an example of _____ data type in Python.   1

18. _____ type of data is returned by input() function.   1

19. A name associated with some value.   1

    a) print
    b) Expression
    c) Statement
    d) Variable

20. _____ is the data type returned by the following statement.   1

```
>>>type([2,44,22,7,22])
a)  int  b) list   c) str        d) float
```

SECTION B: SUBJECTIVE TYPE QUESTIONS

21.   What are the benefits of self management skills?   2

22.   Explain a) Self confidence   b) Self Reinforcement   2

23.   Explain the function and parts of CPU.   2

24.   Explain the two modes of Python shell.   2

25.   Explain any two AI Domains.   2

26.   Name the components of AI project Cycle. Explain any two components.   2

27.   Explain the difference between // and ** with an example.   2

28.   What will be the output of the two print statements in the following Python program ?   2

```
P=12
Q=5
print(P%Q)
print(P/Q)
```

29.   Write the different comparison operators used in Python. What value is returned by   2
       Comparison operator?

30.   Write a Python program to find the distance by using formula $S=ut+1/2at^2$ 4

31.   Explain the if..elif statement with an example.   4

32.   Explain the 4 Ws of problem scoping.   4

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