

# ARTIFICIAL INTELLIGENCE

## Marking Scheme

### SUPPLEMENTARY/RE-EXAMINATION FOR CLASS IX (SESSION 2023-24)

MAX. TIME-2 Hours

MAX. MARKS: 50

## ANSWERS

### Q-1

1. Sender
2. Strength
3. Self-Commitment
4. Global Positioning System
5. Sole Proprietorship
6. Reduce, Recycle and Reuse

### Q-2

1. All of these
2. John McCarthy
3. Image and Video
4. Goal 2
5. Computer Vision
6. All of these

### Q-3

1. Data Handling
2. What
3. Microsoft Excel
4. Input
5. Labelled
6. Artificial Neural Network

### Q-4

1. d) all of these and
2. d) all of these
3. c) Where
4. b) 20%
5. a) Sensor
6. a) AI Model

### Q-5

1. c) Program
2. a) input()

3. d) +=
4. c) Guido van Rossum
5. b) .pl
6. a) Python code is both compiled and interpreted

## **SECTION B**

**Ans-5 ORAL COMMUNICATION-**

1. It is communication using spoken words.
2. It can be direct face to face conversation or telephonic conversation.

**WRITTEN COMMUNICATION**

- 1 It is communication using written words.
2. It is a process of sending short messages through phones, writing letters, sending emails, making notes or writing down speech to communicate.

**Ans-6**

- 1 Give positive comments
2. Plan picnics together

**Ans-7**

**Data-** It is the collection of raw facts or figures in the form of text, numbers, graph etc. Also called raw data or unprocessed data. Provided to the computer using Input devices like keyboard etc.

**Information-** It is the processed data which has been manipulated and arranged in the form the user wants. It is also called meaningful data or information . Given to the user through output devices like monitor, Printer etc.

**Ans -8**

Liability means legally responsible for something. For example tax to be paid, bank loan etc.

**Ans-9**

1. Use alternative source of energy
2. Recycle and reuse elements and products.

**Ans-10**

The concept of CV is to train computers to read, process and analyse visual data in the same way a humans do.

**Ans-11**

Data acquisition means collecting raw facts, figures or statistics from relevant sources either for reference or analysis needed for AI Projects.

**Ans-12**

Artificial Neural Network and Biological Neural Network.

Ans-13

Forecasting- Neural Networks are trained to understand the patterns and detect the possibility of rainfall

Music Composition- Neural Networks can even learn patterns in music and train themselves enough to compose fresh tunes.

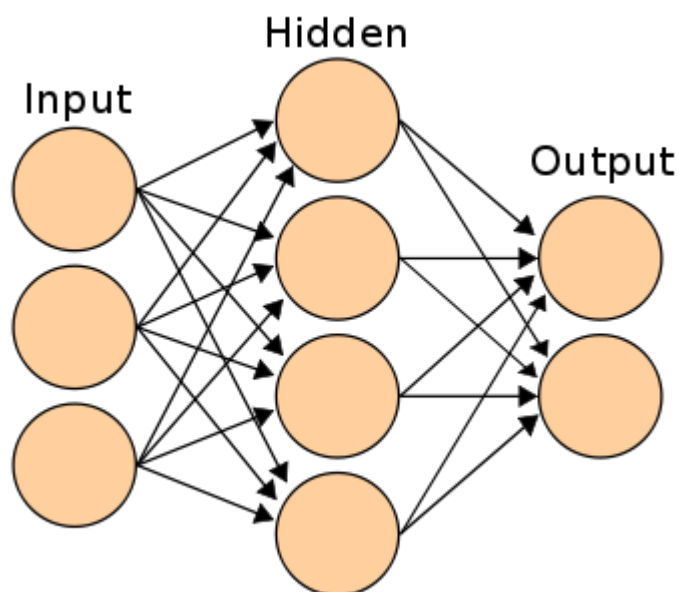
Ans 14

Guido Van Rossum designed python and released in 1991. He wanted to give a unique name to it . So he named it after the famous BBC comedy TV show “Monty Python’s Flying Circus”

Ans- 15

Tokens are the smallest meaningful unit of a program. Token supported by python are Keywords, Identifiers ,Literals etc.

Ans-16



Ans-17 Following impact of AI on social media are

- Facebook a social networking site to connect with family and friends uses AI to help your Newsfeed perform better.
- Twitter uses AI to keep a check on inappropriate and objectionable content .
- Instagram uses data and AI for target advertisement, reporting offensive content and cyber bullying
- Chatbots uses NLP to recognize words or phrases to deliver commonly asked questions with accuracy.

Ans-18

- Who- In this stage we look for the people who are having the problem. They are the people who are directly affected by the problem. They are also known as Stakeholder of the problem.
- What- In this we consider the nature of the problem, and how do we know it's a problem. To verify any evidence if it's a real-life problem or just a perception
- Where- We check for where does the problem arise, the context of the problem.
- Why- It means to understand the root cause of the problem

Ans-19

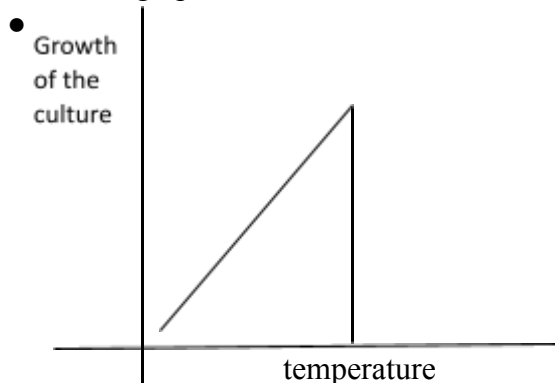
Data Exploration cleans the big data to provide an input to an AI project. Terabytes of data sitting in the data centre unused is burden, if correctly processed it can become a digital gold.

The need of visualizing data are

- Becomes easier to communicate data
- Becomes easier to identify the area of improvement
- Becomes easy to take decision in data

Ans-20

- Regression Model is the best AI model for this situation as it can generate the best mapping function to plot the growth falls sharply. This shows that the graph will be a linear graph.



Ans 21

- 1)  $6 \times 5 - 14 \div 7 + 2 \times 3$   
 $30 - 2 + 8$   
 $36$
- 2)  $50 \div 9 - 2 \times 5$   
 $5 - 2 \times 5$   
 $5 - 10$   
 $-5$

Ans-22

Oval- Used to start and end a flowchart

Parallelogram – Used for input and output operation

Rectangle- Used for assignment, mathematical operations, processing

Diamond- Used for decision making in case of branching or looping

Arrow- Used for to show the direction of flow of information