



ANNUAL EXAMINATION 2023-24

SUBJECT: ARTIFICIAL INTELLIGENCE

CLASS: IX

SUBJECT CODE :417

Time: 2Hr

Sample Paper

M.M: 50

IMPORTANT INSTRUCTIONS:

- The Question Paper consists of two sections: Section A and Section B.
- The Question paper consists of 28 questions in total.
- Section A has Objective type questions whereas Section B contains Subjective type questions.
- Section A
1x15=15 marks
- Section B
2x6=12 marks
3x5=15 marks
4x2=8 marks
- All questions of a particular section must be attempted in the correct order.

SECTION A

1x15=15

Multiple Choice Questions (Write the correct answer)

- _____ is not a disadvantage of Artificial Neural Networks(ANN).
 - Hardware Dependence
 - Storing information on the entire network
 - Unexplained functioning of the network
- _____ is a simply graphical representation of steps.
 - Algorithm
 - Flowchart
 - Holography
- In a flowchart calculation(process) is represented by_____.
 - A rectangle
 - A rhombus
 - A parallelogram
- Statement 1 : Neural Network System modelled on the human brain and nervous system.
Statement 2 :Every neural network node is essentially a machine learning algorithm.
 - Statement 1 is correct and Statement 2 is incorrect
 - Statement 2 is incorrect and Statement 1 is incorrect
 - Both Statement 1 and Statement 2 are correct
- A _____ system uses a rules as the knowledge representation.
 - Machine based
 - Learning based
 - Rule based
- First Artificial neural network (ANN) was invented by psychologist Frank Rosenblatt called_____.
 - Neuron
 - Perceptron
 - Axon
- _____ is like a cable through which neurons send the information.
 - Synapses
 - Axon
 - Dendrites
- _____ statements are executed depending upon a condition are known as
 - Selective
 - Iterative
 - Sequential
- Full form of HWR is _____
 - Hand Text Recognition
 - Handwritten Test Recognition
 - Handwritten Text Recognition
- Which is the correct code line for the given output:
Sample Paper
 - Print ("Sample Paper")

- b. print("Sample paper")
 c. print("Sample Paper")
11. _____ can unlock your phone with your face.
 a. Spam detection b. Face Recognition c. Speech Recognition
12. _____ learning is a training of machine using information that is neither classified nor labelled
 a. Unsupervised
 b. Supervised
 c. Semi supervised
13. Which of the following AI enabled virtual assistant is launched by Google?
 a. Siri b. Alexa c. Echo
14. _____ involves identifying a problem and having a vision to solve it.
 a. Data Exploration b. Problem Scoping c. Data Visualisation
15. A person who starts an enterprise is _____.
 a. Manager b. Organiser c. Entrepreneur
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SECTION:B

16. Write about any two applications of Neural Network? 2
17. What is Entrepreneurship? What are various roles of entrepreneur? 2
18. Write advantages and disadvantages of Decision Tree. 2
19. What is Fuzzy Logic? Write about its any two application areas . 2
20. Write the output of the following code lines: 2
 S=16
 T=4
 print(S/T)
 print(S//T)
21. Write a python program to print all odd numbers from 7 to 29 using loop. 2
 Or
21. Write a program to input a number and check it is "even" or "odd".
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22. What is the meaning of the word 'Environment'? Discuss the various factors causing imbalance in ecosystem. 3
23. Write a python program to accept no from 1-12 and display the name of the month 3
 1- January, 2-February, 3-March, 4- April, 5-May, 6-June, 7-July, 8-August,
 9-Sepetember, 10-october, 11-November, 12-December otherwise print "No match found". (use elif)
24. Write about the following: 3
 a. Data Acquisition
 b. Data Exploration
 c. Data Visualisation
25. Explain about 4ws framework for solving a problem. 2+1=3
26. Write about the working of three layers of Neural Network System?

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27. Write about any four applications of Machine Learning? 4
 Or
27. Write about four types of Machine Learning.
28. Write an algorithm to find perimeter of circle. Write python program for the same. 2+2=4
 Or
28. Draw a flowchart for calculating sum of three numbers. Write the python program for the same.