



Delhi Public School, Howrah

FINAL EXAMINATION (2024-2025)

Class-IX

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

SUBJECT: ARTIFICIAL INTELLIGENCE (SUBJECT CODE 417)

PRACTICAL EXAMINATION

Time:-2 Hours

F.M.-50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper is divided into 02 sections, viz., Section A and Section B.
3. Section A is of 15 marks and is based on the practical activity.
4. Section B is of 35 marks and is based on the Practical File, Project and Viva-Voce.

SECTION A (15 marks)

1. Write and execute the following programs with appropriate output in Python.

- a. Write a program to find the sum of maximum and minimum elements from a user defined list. (3)
- b. Write a program to evaluate $(a+b)^3$. "a" and "b" has to be taken from user. (3)
(Hints: $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$)
- c. Consider the string str1= "Global Warming". (1×3=3)
Write statements in Python to implement the following
 - i. To display the last four characters of the string str1.
 - ii. To replace all the small letters into capital letters into the string str1.
 - iii. To replace the word "Warming" into "News".
- d. Write a program to check if a user given number is prime or not. (3)
- e. Write a program which accepts a number from the user and prints the frequency of the number in the list "LST" given as under. (3)
LST=[23,56,24,23,56,78,23,78,89]

SECTION B (35 marks)

1. Practical File (15)
2. Project (15)
3. Viva Voce (5)

