



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



POST MID TERM 2025-26

ARTIFICIAL INTELLIGENCE – MARKING SCHEME (417)

Class : IX

Date : 07-01-2026

Admission No.:

Duration : 1 Hrs

Max. Marks : 25

Roll No.:

General Instructions:

Try to attempt all questions as per given order.

All questions are compulsory.

The Question Paper is divided into Three sections Section A to C.

- Section A has 11 questions attempt 11 and carry 1 mark each.
- Section B has 6 questions attempt only 4 and carry 2 marks each.
- Section C has 4 questions attempt only 2 and carry 3 marks each.

Section-A

1. Which of the following symbols is used in flowcharts to take input from the user? 1
a. Diamond b. Rectangle c. Oval d. Parallelogram *
2. Which of the following is a valid logical operator? 1
a. and * b. != c. + d. >=
3. Which of the following is a data type that has two built-in values True or False? 1
a. Boolean * b. Numbers c. Integer d. String
4. If L1 = ['O', 'R', 'A', 'N', 'G', 'E'], then which of the following will be the output of the given statement? 1
print (L1 [:: -1])
a. Prints the list as it is b. Prints the list in reverse order *
c. Prints the last element of the list d. Prints the first element of the list
5. What will be the output of the following code? 1
if (True) :
 print ("Hello")
else:
 print ("Hi")
a. Hello * b. Hello Hi c. Hi d. Nothing will print
6. What letter will be printed on the screen after running this code: 1
city = "Exeter"
letter = city[3]
print (letter)
a. E b. x c. t * d. Nothing prints

7. What does Fourth Partner Energy, which is one of the famous Green Projects of India, focuses? 1

- a. To make solar energy accessible *
- b. To make bio-gas accessible
- c. To make wind energy accessible
- d. To make nuclear power accessible

8. Which of the following is supported by Waste Management? 1

- a. Disposal of waste
- b. Too much waste generated needs to be managed
- c. Reduce, Reuse, Repurpose, Refuse and Recycle *
- d. Proper collection of waste of all types in one place

9. Since when Environmentally Sustainable development has become the main goal of all the countries across the globe? 1

- a. All Nations Summit in 2000
- b. All Nations Conference in 1998
- c. America Conference in 1998
- d. UN Conference on Environment and Development (UNCED) in 1992 *

10. The term "Green economy" was first coined by which of the following? 1

- a. Government of India
- b. Government of United Kingdom *
- c. Government of America
- d. Government of China

11. Which of the following is used to conserve our natural resources? 1

- a. Furniture Conservation
- b. Water Conservation *
- c. Money Conservation
- d. Clothes Conservation

SECTION - B

12. What is Green Skill Development Programme? 2

Ans: The **Green Skill Development Programme** is an initiative by the **Government of India** to train young people in skills that help protect the environment. It teaches eco-friendly job skills such as: Waste management Water conservation Pollution monitoring Organic farming Renewable energy technologies. The aim is to create a workforce that can work in green industries and support sustainable development.

13. What is Global Warming? 2

Ans: Global warming refers to the increase in the average temperature of the Earth's atmosphere mainly due to greenhouse gases (carbon dioxide, CFC's) produced by a lot of human activities.

14. What do you understand by the term Eco System? 2

Ans: An ecosystem is defined as a community where living and non-living things interact with each other and their surrounding environment to form a balanced system.

15. What is the use of sort() function of a list? 2

Ans: The sort() function is used to arrange the elements of a list in ascending or descending order

16. Why are flowcharts more preferred than algorithms? 2

Ans: Flowcharts are more preferred because they are visual, easier to understand, and clearly show the flow of the program using symbols.

17. What is the difference between pop () and remove() functions? 2

Ans: The pop() function removes an element by index and returns it, while remove() deletes the first matching value from the list

SECTION - C

18 Explain the main causes of soil pollution? (any three) 3

Ans: Here are four main causes of soil pollution:

- Industrial Waste – Factories release harmful chemicals and heavy metals into the soil, making it toxic.
- Agricultural Chemicals – Excessive use of pesticides and fertilizers contaminates the soil and reduces its fertility.
- Plastic and Waste Dumping – Non-biodegradable waste like plastic and electronic waste pollutes the soil.
- Deforestation – Cutting down trees removes natural protection, making the soil prone to erosion and pollution.

19 Explain any three social benefits of the Green Economy. 3

Ans: Social benefits of green economy are:

- It improves the health and well-being of the society which increase the productivity of the country and reduce the costs of health care.
- It improves livelihood status and poverty rate.
- It reduces environment related health problems.

20 Give three difference between an algorithm and a flowchart. 3

Algorithm	Flowchart
It is a step-by-step textual approach to solve a problem.	It is a graphical representation of a algorithm.
It can be written in natural language, pseudocode, or code.	It uses standardised symbols and shapes.
Difficult to represent branching and looping.	Easily represents branching and looping through symbols.

Ans:

21 Write a program, Input three angles and check whether they form a triangle or not.

Ans:

```
a = int(input("Enter first angle: "))
b = int(input("Enter second angle: "))
c = int(input("Enter third angle: "))
if a + b + c == 180:
    print("The angles form a triangle.")
else:
    print("The angles do not form a triangle.")
```