

O. P. JINDAL SCHOOL, SAVITRI NAGAR
Periodic Test – III (Round-I) (2025 – 2026)

Class: X

MM: 20

Subject: Artificial Intelligence (417)

Time: 1 Hr.

General Instructions:

- (Section – I) Multiple Choice Questions, consists of 05 questions. Each question carries 01 mark.
- (Section – II) Short Answer Type Questions, consists of 04 questions. Each question carries 02 marks. Attempt any 03 questions.
- (Section – III) Long Answer Type Questions, consists of 04 questions. Each question carries 03 marks. Attempt any 03 questions.

SECTION – I (Multiple Choice Questions)

- Q1. _____ is a technique that categories predicted value of an AI model and the actual result values.
a) accuracy b) precision c) recall d) confusion matrix
- Q2. _____ is used as a metric when our objective is to minimize false positives.
a) precision b) accuracy c) F1 score d) recall
- Q3. _____ is used as a metric when the objective is to minimize false negatives.
a) precision b) accuracy c) F1 score d) recall
- Q4. What problem does Train – Test split prevent?
a) underfitting b) overfitting c) data duplication d) file corruption
- Q5. What is the purpose of the training set in machine learning?
a) to evaluate the model b) to teach the model pattern
c) to delete useless data d) to confuse the model

SECTION – II (Short Answer Type Questions)

- Q6. What is Confusion Matrix?
- Q7. What is Precision?
- Q8. What is Train Test Split in AI?
- Q9. Why is the test dataset important in AI?

SECTION – III (Long Answer Type Questions)

- Q10. What is the role of training data set?
- Q11. What happens if AI is trained on 100% of the data?
- Q12. What is Recall? What is its formula? What is its significance?
- Q13. Why is accuracy not considered a complete and sufficient metric?