



B.K. BIRLA CENTRE FOR EDUCATION

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

PRE MID TERM: 2025-26 ARTIFICIAL INTELLIGENCE (417)

Class: X

Date: 01-08-2025

Admission No. :

Time : 1 hr.

Max Marks: 25

Roll No. :

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper contain two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. All questions of a particular section must be attempted in the correct order.
5. **SECTION A - OBJECTIVE TYPE QUESTIONS (07 MARKS):**
 - i. This section has 01 question.
 - ii. Marks allotted are mentioned against question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
6. **SECTION B – SUBJECTIVE TYPE QUESTIONS (18 MARKS):**
 - i. This section has 14 questions.
 - ii. A candidate has to do 8 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.(1) Answer any 7 out of the given 10 questions :

(7 x 1 = 7)

- (i) Which one of the following is a sign of Good Stress ?
 - (a) Excited
 - (b) Pain in body
 - (c) Fever
 - (d) Irritating nature
- (ii) The self management skills of an employee are very important at the workplace to acquire
 - (a) Driving skill
 - (b) Maintenance skill
 - (c) Self confidence
 - (d) Physical strength
- (iii) Which of the following acts as an interface between the user and the computer ?
 - (a) Operating System
 - (b) Excel
 - (c) Impress
 - (d) LibreOffice Calc
- (iv) Which of the following is a valid file extension for Word file ?
 - (a) .jpg
 - (b) .docx
 - (c) .text
 - (d) .txt
- (v) What does 'Error' refer to in model evaluation ?
 - (a) The difference between the model's prediction and the actual outcome
 - (b) The total number of correct predictions
 - (c) The total number of false positives in the model
 - (d) The percentage of false negatives in the model

- (vi) What is the primary purpose of model evaluation in machine learning ?
 - (a) To reduce the size of the dataset
 - (b) To measure the model's performance and ensure it generalizes well to unseen data
 - (c) To increase the complexity of the model
 - (d) To avoid the need for real world testing
- (vii) In which scenario is a model said to be "underfitting" ?
 - (a) The model performs poorly on both training and test sets
 - (b) The model performs well on both training and test sets
 - (c) The model memorizes the training data but fails to generalize
 - (d) The model performs well on the training set but poorly on the test set
- (viii) What does the success of AI mainly depend on ?
 - (a) The size of the machine
 - (b) The amount, quality and type of data it receives
 - (c) The speed of the algorithm
 - (d) The location of the AI system
- (ix) Which of the following tools is an open source data mining and machine learning tool designed for data analysis, visualization and exploration ?
 - (a) Microsoft Excel
 - (b) Tableau
 - (c) Orange data Mining
 - (d) SPSS
- (x) What is the main thing that drives Artificial Intelligence (AI) technology ?
 - (a) Human intelligence
 - (b) Algorithms
 - (c) Machines
 - (d) Data

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 6 out of the given 10 questions:

(6 x 2 = 12)

- Q. (2)** What do you understand by "Ability to work Independently" ?
- Q. (3)** How is Self awareness helpful in enhancing your ability to work independently ?
- Q. (4)** What do you mean by an Operating System ? Name any two operating system.
- Q. (5)** What is the use of antivirus software ? Name any two commonly used anti virus software.
- Q. (6)** Why is it important to maintain a balance between bias and variance in a machine learning model ?
- Q. (7)** What is precision in model evaluation, and why is it important in spam detection ?
- Q. (8)** Why is it important to split the dataset into training and testing sets ?
- Q. (9)** What is Data Science ?
- Q. (10)** Write and explain any two disadvantages of no-code tools.
- Q. (11)** What is Teachable Machine ?

Answer any 2 out of the given 4 questions :

(2 x 3 = 6)

- Q.(12)** What are the tips for practicing the four steps for effective Time management ? Write any three.
- Q.(13)** What precautions will you take to protect your computer from computer viruses ? Write any three.
- Q.(14)** List the different evaluation model and explain any three.
- Q.(15)** Differentiate between Custom Code, Low Code and No Code.

***** ALL THE BEST *****