

B.K. BIRLA CENTRE FOR EDUCATION



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

PERIODIC TEST II - 2025-26

ARTIFICIAL INTELLIGENCE (843)

Class: XI (Subject-5)	Duration: 1 Hrs
Date :10/11/25	Max. Marks : 25
Admission No.:	Roll No.:

General Instructions:

Try to attempt all questions as per given order.

All questions are compulsory.

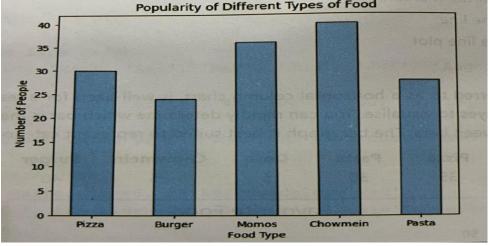
The Question Paper is divided into Three sections Section A to C.

- Section A has 10 questions attempt only 7 and carry 1 mark each.
- Section B has 10 questions attempt only 6 and carry 2 marks each.
- Section C has 4 questions attempt only 2 and carry 3 marks each.

Section-A

1.	a. Empathise	b. Ideate	c. Eval		d. Protoype	1
2.	What is the most i a. Says	mportant part of Empa	athy Map? c. Does	d. User		1
3.	What is crucial for a successful problem-defining process? a. Basic analysis and evaluation b. Data cleansing c. Defining the features d. AI modelling					1
4.	Which of the following is not a primary data source? a. Survey b. Interview c. Observation d. Published report					1
5.	Which measure of a. Mean	central tendency is mb. Median	ost affected by e c. Mode		es? re equally affected	1
6.	Which function is a. title ()	used to set the size of b. xlabel ()	the plot in Matp c. figure ()	olotlib? d. show	· ()	1
7.	Which of the following is an example of a virtual assistant powered by NLP? a. Google Search b. Microsoft word c. Siri d. Photoshop					1
8.	. Which of the following is required by machines to understand human language? a. NLP b. Neural network c. Chatbot d. Data parsing					1
9.	What field of study	is crucial for understand	ding and improvin	-	guage communication? None of these	1

10.	What is a relationship in context of NLP? a. A single entity in a text b. A random word in a sentence		
	c. A collection of two or more entities that share a strong bond	d. An individual noun	
	SECTION - B		
11.	What is Design Thinking?		2
12.	What do you understand by Deployment?		2
13.	What is Capstone project?		2
14.	What is Prototype?		2
15.	What is Primary Data Source?		2
16.	What is Data Exploration?		2
17.	Write a program to calculate mean weight of 10 students. 38.5, 25.5, 60,45.5, 35, 49, 47.5, 32, 28.5, 50		2
18.	What is NLP?		2
19.	What is semantic analysis?		
20.	Write two disadvantages of Rule Based Chatbot. $\mathbf{SECTION} - \mathbf{C}$		
21.	Why is brainstorming very popular with design teams?		3
22.	Create a Bar Graph for, how many people like varied food ite Food: Pizza, Burger, Momos, Chowmein, Pasta No. of people: 30, 24, 36, 40, 28 Output:	ems using Python.	3
	Popularity of Different Types of Food		



Differentiate between Training data and Testing data.
 Differentiate between rule based chatbot and AI based chatbot.