



Delhi Public School, Howrah

PERIODIC ASSESSMENT I (2025-2026)

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: DATA SCIENCE (SUBJECT CODE 419)

THEORY EXAMINATION

Time Allowed: -1 Hour

F.M.-25

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **15 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (3 + 12 = 15) questions, a candidate has to answer (3 + 6 = 9) questions in the allotted (maximum) time of 1 hour.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (11 MARKS):**
 - i. This section has 03 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (14 MARKS):**
 - i. This section has 12 questions.
 - ii. A candidate has to do 6 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 3 out of the given 4 questions on Employability Skills (1 x 3 = 3 marks)	
i.	Rupam is a new student in the class who has come from Andhra Pradesh to Kolkata. He is feeling shy to interact with the other students in the class. Which of the following factor is responsible for Rupam's above mentioned behavior? A. Physical Factor B. Social Factor C. Cultural factor D. Environmental Factor	(1)
ii.	Choose the self-management skill that involves maintaining cleanliness, health and smart appearance. A. Self-awareness B. Self-motivation D. Personal hygiene and grooming C. Positive thinking	(1)
iii.	Who initiates the process of communication? A. Feedback B. Sender C. Receiver D. Communication Channel	(1)
iv.	_____ is an ability of the brain to interpret the message received through our eyes. A. Communication B. Decode B. Feedback D. Encoding	(1)

Q. 2	Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)	
i.	The sentence "Junk Food is not good for health" is an example of. A. Information B. Data C. Raw Data D. Knowledge	(1)
ii.	State whether the following statement is TRUE or FALSE. Rewrite the correct statement if false: A digital footprint is also known as a digital shadow.	(1)
iii.	Some important applications of data in healthcare domain is/are : A. Patient monitoring B. Disease prediction C. Drug discovery D. All of the these	(1)
iv.	"Raj is 5 feet 8 inches tall." This sentence shows: A. Categorical information B. Numerical information C. Incomplete data D. Qualitative data	(1)
v.	Reinforcement learning tells us about: A. The number of output categories B. The number of output groups C. What would be the next step D. The number of inputs	(1)
vi.	Which of the following is the appropriate meaning of information? A. Organised and raw fact B. Organised and structured data C. Raw facts that is to be organised D. Facts which needs meaningful interpretation	(1)

Q. 3	Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)	
i.	The qualities of information may be defined in terms of _____. a. Accuracy b. Completeness c. Meaningful and Action-oriented d. All of above	(1)
ii.	Which of the following is not a part of data processing? a. Data Collection b. Data analysis c. Data Interpretation d. Communication building	(1)
iii.	Fill in the blank: Without _____ data, meaning insight cannot be obtained as data on its own has no meaning.	(1)
iv.	In how many forms, Big Data structure is classified? a. 2 b. 3 c. 4 d. 5	(1)
v.	Who can use or see data from your data footprint? a. Your data footprint is potentially visible to anyone. b. No one can access data from your digital footprint but it is visible to content provider through cookies . c. Only the police will have access to the information on your data footprint . d. It is visible to professionals, but they need special access to go through the data .	(1)
vi.	The steps involved in data collection are given below in a jumbled order. i. Planning how the data collection process will do ii. Decide how to collect data iii. Data collection iv. Identify the objective Which of the following options represent the correct order of the steps? a. i -> ii -> iii -> iv b. iv -> ii -> i -> iii c. iii -> i -> ii -> iv d. iv -> iii -> ii -> i	(1)

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 2 out of the given 4 questions on Employability Skills (2 x 2 = 4 marks)

Answer each question in 20 – 30 words.

Q. 4	Feedback is the final component and one of the most important factors in the process of communication. Give two reasons to justify why feedback is important.	(2)
Q. 5	Discuss any two factors that affect perspectives in communication.	(2)

Q.6	Shivam got admission to a new school. His clothes were not clean, his shoes were not polished, and his laces were not tied. He did not smile at anyone and looked sad. He did not look confident. What are the qualities of self-management that you think are missing in Shivam?	(2)
Q.7	There are seven C's of effective communication which are applicable to both written as well as oral communication. Awareness of seven C's make one an effective communicator. Explain any two C's from the seven C's of communication.	(2)

Answer any 3 out of the given 5 questions in 20 – 30 words each (3 x 2 = 6 marks)

Q.8	Rahul, a student, is researching on a topic for his project. He gathers data from various sources, including books, articles, and websites. How can Rahul convert this data into an useful information that will help him complete his project effectively?	(2)
Q.9	Explain the use of DIKW model?	(2)
Q.10	Sneha is browsing online and uses a public Wi-Fi network to check her email and social media. Unaware, she is being tracked online. What are two examples of passive digital footprints that Sneha might be leaving behind?	(2)
Q.11	As a data scientist, you are tasked with collecting data for a project. Describe the various data collection tools you would use, and explain how you would choose the most suitable tool for a specific project requirement.	(2)
Q.12	Discuss two major causes of Data loss.	(2)

Answer any 1 out of the given 2 questions in 50– 80 words each (1 x 4 = 4 marks)

Q.11	What are knowledge-based industries?	(4)
Q.12	You are leading a research project that involves collecting both qualitative and quantitative data. Explain the key differences between these two types of data, and describe how you would analyse and interpret them differently to draw meaningful insights.	(4)
Q.13	Discuss the impact of data and its application on our lives in the following sectors- (a) Healthcare (b) Education	(4)