PT-2/HALF YEARLY EXAMINATION, 2022-23
ARTIFICIAL INTELLIGENCE (843)

Time - 7:15 AM to 10:20 AM   **Class - XI**   **M.M. : 50**

Date – 07.09.2022 (Wednesday)

Name of the student _____ **Section** _____

General Instructions:
- Please read the instructions carefully.
- This Question Paper consists of **29** questions in four sections – Section **A**, **B**, **C** & **D**.
- Section A and B Are **Objective type** questions
- Section C contains **Short Answer type** questions.
- Section D contains **Long Answer type** questions.
- All questions of a particular section must be attempted in the correct order.

SECTION - A (1x14=14 Marks)

Q.1) _____ is the process of using facts and narrative to communicate something to your audience.

   a) Storytelling   b) Conflict   c) Resolution   d) None of these

Q.2) Facts simply present _____

   a) Data   b) Story   c) Conflict   d) Character

Q.3) A high _____ indicates that the data points are spread out over a large range of values.

   a) Mode   b) Standard Deviation   c) Mean   d) None of these

Q.4) _____ is a set of numbers arranged in rows and columns so as to form a rectangular array.

   a) Vectors   b) Matrix   c) Determinant   d) Set

Q.5) _____ of matrix creates a new matrix with number of rows and columns flipped

   a) Inverse   b) Determinant   c) Transpose   d) Scalar

Q.6) _____ is the process of finding instances of real world objects such as faces, bicycles and building in images or videos

   a) Image classification   b) Object detection
   c) Cognitive computing   d) None of these

Q.7) _____ is the mental action or process of acquiring knowledge and understanding through thought, experience and the senses.

   a) Cognition   b) Perception   c) Intelligence   d) Computer Vision

Q.8) No _____ are present in an AI system.

   a) Features   b) Emotions   c) Cables   d) Intelligence

Q.9) What is the purpose of communication?

   a) Inform (tell someone about something

   b) Influence (get someone to do something you want

   c) Share thoughts, ideas, feelings

   d) All of the above

Q.10) By which action can a sender send his or her messages?

   a) Listening   b) Speaking   c) Sleeping   d) None of these

Q.11) Why do we send emails?
a) To communicate information
b) To share documents and files
c) To talk to each other
d) Both (a) and (b)

Q.12) You have just finished attending a class in a biology lab. You have to go back to your classroom for other classes. After the lab, should you wash your hands?
a) Not really, you did not use the washroom as such.
b) You can just clean your hands under running water.
c) You should follow your hand-wash routine — wash, rinse and dry.
d) None of these

Q.13) Dressing and grooming does not affect your overall impression on others.
a) True
b) False

Q.14) Your family has moved to a new home. Your next-door neighbour pays a visit. What should you do?
a) Tell them you are in the middle of shifting and cannot speak right now.
b) Get irritated and tell them that they have dropped in without informing.
c) Give them an insincere smile and ask them to leave.
d) Welcome them, introduce your family and thank them for coming.

SECTION - A (2x5=10 Marks)

Q.15) Fill in the blanks using the given prepositions (across, of, into, to) to complete the sentences.
Go _____ the bridge and on the other side you will see a park.

Q.16) Full form of ANN is _____

Q.17) Example two real world applications of supervised learning are _____ ,_____

Q.18) General formula of Linear Regression is _____

Q.19) In storytelling Narrative+ Data is called _____

SECTION - C (2x7=14 Marks)

Q.20) Define Time management. Explain a few Time management strategies.

Q.21) What are the sources of AI bias ? explain.

Q.22) What is pixel and resolution?

Q.23) Explain any four areas where computer vision is used

Q.24) What are needs of storytelling?

Q.25) What are components for good story? Explain.

Q.26) What is Deep Learning?

SECTION - D (4x3=12 Marks)

Q.27) What is SET? What are different types of set operation(At least four operation) Explain.

Q.28) Explain any four areas where Natural Language Processing is being used.

Q.29) Calculate the mean of the following grouped data.

Class	Frequency
2-4	3
4-6	4
6-8	2
8-10	1