## ATOMIC ENERGY CENTRAL SCHOOL-2, MUMBAI

## **PT-2 EXAMINATION -2023**

SUB: ARTIFICIAL INTELLIGENCE CLASS: X TIME: 2 Hrs. MM-50

## Imp. Instructions:

• Write down the proper question Sr. No. and answer it.

<ul> <li>Each section have choices. Don't do extra questions.</li> <li>Fill in the blanks (do any 7) 7 x 1 = 7 marks</li> </ul>	[7]
is a factor that contribute to stress.	[1]
is an importance of the ability to work independently	[1]
Stress often arises due to lack of	[1]
activities are time-our activities, helps to manage stress.	[1]
will helps in managing stress. (prioritise the tasks/always say yes to work	[1]
Decoding is done atend.	[1]
Based on communication channel, communication aretypes. (3/2)	[1]
is a non-verbal communication, the tone of voice shows how a person is feeling like anger	[1]
or joy.	
Verbal communication relies heavily on	[1]
is not a barrier to communication. ( a cultural belief/simple language)	[1]
Answer the following questions. (do any 7) 7 x 1 = 7 marks	[7]
How does self-motivation help an individual in achieving one's goal?	[1]
How does self-awareness help in an individual's growth?	[1]
What is self-reliance?	[1]
Draw two visual communication examples?	[1]
How gestures is a part of communication? Give example?	[1]
Define descriptive feedback?	[1]
In the following sentence a phrase has been underlined. Write whether they function as nouns, adjective or adverb.  Helium-filled balloons fly off easily.	[1]
Correct the sentence:	[1]
I am waiting in the Shopping mall. You will be in the college next year.	[1]
Give an example of complex sentence.	[1]
Define Jargon or Vocabulary?	[1]
Answer the following questions. (do any 4) 4 x 2 = 8 marks	[8]
Define 2 important advantages of the stress management?	[2]
State two important methods to enhance ability to work independently?	[2]
How self-awareness helps in the working independently?	[2]
What is a good feedback, give two points?	[2]
Draw communication cycle diagram?	[2]
Give 4 elements which are essential for a well-defined paragraph?	[2]
List 4 important barriers of effective communication?	

Q.4	Fill in the blanks (Do any 6) 6 x 1 = 6 marks	[6]
a.	is the first chatbot developed in 1966.	[1]
b.	is the first gaming device by Microsoft.	[1]
c.	intelligence helps to understand one's existence such as meaning of life and death.	[1]
d.	is a fully automatic machine but not AI.	[1]
e.	Ecommerce based recommendations to customer is an example of ( DS/CV/NLP)	[1]
f.	Self-driving car is an example of (DL/NLP/CV)	[1]
g.	Thelayer of neural networks deals with decision making or computations.	[1]
h.	project is a part of SDG sustainable cities and communities. (IOT/smart city/smart home)	[1]
i.	data required at the end of cycle to test the AI machine.	[1]
j.	Machine learning is based onapproach. (rule based/learning based)	[1]
Q.5	Answer the following questions. (do any 6) 6 x 1 = 6 marks	[6]
a.	State two advantages of machine learning.	[1]
b.	Define supervised learning?	[1]
c.	Draw the neural network design?	[1]
d.	Define dimensionality reduction model?	[1]
e.	Name two valid sources of data acquisition?	[1]
f.	Differentiate between training data and validating data?	[1]
g.	List 2 data visualisation tools used for automatic process of data exploration?	[1]
h.	Draw a sketch of 4-W canvas?	[1]
i.	An AI model trained to predict the number and name of the fruits. It collect the pictures and analyse the correct prediction. Name the model?	[1]
j.	Define deep learning?	[1]
Q.6	Answer the following questions. (Do any 4) 4 x 2 = 8 marks	[8]
a.	Give two differences between rule based and learning based approaches?	[2]
b.	State some ethical concerns of AI?	[2]
C.	List various stages involved in the Data Science process.	[2]
d.	State 2 applications of AI in various industries?	[2]
e.	List out some applications of NLP	[2]
f.	List four parameters of the evaluation stage?	[2]
g.	Draw diagrams of clustering and classification models?	[2]
Q.7	Answer the following questions. (Do any two) 2 x 4 = 8 marks	[8]
a.	State the nine modalities of intelligence?	[4]
b.	Define 4 important skills of stress-management?	[4]
c.	Define the principles of effective communication?	[4]
d.	Define the 4 important SDG goals in brief?	[4]
e.	Future retails e-commerce company profits are going down day by day. CEO of the Company wanted	[4]
	to do market research and evaluate the choice of the people and their buying preferences, so they can	
	make necessary amendments in their strategies of earning profits. Draw 4-W canvas for the problem.	