KENDRIYA VIDYALAYA SANGATHAN, LUCKNOW REGION
OCTOBER MONTHLY TEST (2024-25)
ARTIFICIAL INTELLIGENCE (SUBJECT CODE - 417)
CLASS X

Max. Time: 1 ½ Hours Max. Marks: 40

General Instructions:
1. Please read the instructions carefully.
2. This Question Paper consists of 19 questions in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. Internal choices are provided in this question paper.
5. All questions of a particular section must be attempted in the correct order.

SECTION A: OBJECTIVE TYPE QUESTIONS

1	**Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)**	
i	Which of the following is NOT an element of communication within the communication process cycle? a) Channel b) Receiver c) Sender d) Time	1
ii	Divya is manager in ABC Coprporation. She is writing an appreciation e-mail to an employee. Which type of communication is used by Divya? a) Expression b) Written Communication c) Body language d) Interpersonal Communication	1
iii	Which of the following is not one of the 7Cs of Effective Communication. a) Concrete b Coherent c. Continuous d Complete	1
iv	Assertion(A): One should prepare daily time-table to avoid unnecessary delay or postpone of planned activity. Reason(R): Time management is the ability to plan and control on spending time in order to complete. a) Both A and R are correct and R is the correct explanation of A b) Both A and R are correct but R is NOT the correct explanation of A c) A is correct but R is not correct d) A is not correct but R is correct	1
v	_____ refers to focusing human efforts for maintaining a healthy body and mind capable of better withstanding stressful situations. a) Mental Health b) Emotional Health c) Self-Management d) Stress Management	1
vi	Sanvi spends all her after-school hours to practice sample question papers. She wants to score full marks in her exams. This is an example of ____ a) Self Awareness b) Self-Motivation c) Self-Regulation d) Self Confident	1

2	**Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)**	
i	Adya pressed a key on keyboard that moved the cursor at the end of the document but she did not know which key has been presses by her. Identify the key pressed by her: a) Enter b) Home c) PgDn d) End	1
ii	Sushant's Computer was running very slow, hangs and often restarts. He is tensed as he was working on a very important assignment. His friends gave him following suggestions. Identify a genuine suggestion for him. (a) Restart your machine (b) Install reliable antivirus software and update (c) Don't use Pen drive (d) Install free antivirus from net	1
iii	Assertion(A): Small pictures on the desktop are called icons. Reason(R): Each icon can contain files and/or sub-folders. (a) Both A and R are correct and R is the correct explanation of A (b) Both A and R are correct but R is NOT the correct explanation of A (c) A is correct but R is not correct (d) A is not correct but R is correct	1
iv	Varsha wants to know about the technology used in Weather forecasting system, to predict the temperature, rainfall and etc. Help her to find the most appropriate type of technology out of the given choices. a. Computer Vision b. Interpersonal Intelligence c. Natural Language Processing d. Artificial Intelligence	1
v	Aman enjoys playing Football and likes to play in the classroom. Which of the following intelligence does he demonstrate? (a) Linguistic (b) Logical-Mathematical (c) Musical (d) Kinesthetic	1
vi	Which of the following statement is incorrect? a. Email Filtering is an application of NLP b. Price comparison websites are applications of Data Science c. Virtual Assistants are not applications of NLP d. Self-driving cars are applications of Computer Vision.	1
3	**Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)**	
i	Deep Fake technology, which creates a person real in virtual world is based on_____. a. Computer Vision b. Computer Aided Design c. Natural Language Processing d. Data Science	1
ii	A company in Chennai is using a AI for performing various tasks. Kunal works as a car driver in this company. Due to usage of AI system everywhere, he has a feeling that he may not be needed in the near future. What is this situation called as? a. Data Privacy b. AI Bias c. AI Access d. AI is creating Unemployment	1

iii	Three domains of Artificial Intelligence are – a) Narrow AI, General AI and Strong AI b) Data Science, Computer Vision and Natural Language Processing c) Machine learning, Deep learning and Theory of Mind d) Data Science, Deep Learning and Machine learning	1
iv	Existential Intelligence is related to – a) Religious and spiritual awareness b) Ability to process information about living and non living things around us c) Ability to communicate with others d) Ability to perceive visual world	1
v	Speech recognition, Image recognition, and the ability to take action are examples of a) to perceive, understand, and act b) reasoning and planning c) learning and adaption d) none of these	1
vi	Which of the following AI domain collects data, maintain the datasets, and derives the meaning out of it? a) Data Science b) Computer Vision c) Natural Language Processing d) Neural Network	1
	SECTION B: SUBJECTIVE TYPE QUESTIONS	
	Answer any 5 out of the given 6 questions (2 x 5 = 10 marks)	
5	The symbol shown below represents "Blind curve". What type of communication uses such symbols and what is the advantage of using that form of communication? 	2
6	Write down the common communication barriers you may come across when you move to a new city or country.	2
7	The communication cycle is the process of relaying information between sender and receiver. List down the various elements of Communication Cycle.	2
8	Riya is preparing for her coming examinations and she wants to manage her time effectively. List down any two methods that can be followed by her for effective time management.	2
9	Vansh is planning to start a new business. What qualities he should possess to run his business successfully and work independently?	2
10	What is ICT. Write two advantages and two disadvantages of ICT.	2
	Answer any 3 out of the given 4 questions (2x3 = 6 marks)	
11	How do you understand whether a machine or application is AI based or not? Explain with an example.	2
12	Ajay wants to know about AI and its uses in our day-to-day life. Help him to understand it by giving any four applications of AI.	2

13	All of us use smartphones. When we install a new app, it asks us for several permissions to access our phone's data in different ways. Why do apps collect such data?	2
14	Ritika is confused about the domain required for playing "Rock Paper Scissor " game with AI machine. Help her to identify the domain and explain her about the domain and its uses.	2
	Answer any 1 out of the given 2 questions (1x4 = 4 marks)	
15	What do you mean by an operating system? Give any four examples of operating system. Also explain the functions performed by an operating system.	4
16	Rajiv had come to know that his pictures are being used by someone on Facebook. What is this situation known as? Discuss various types of threats associated with sing ICT.	4
	Answer any 2 out of the given 3 questions (2x4 = 8 marks)	
17	Suman learnt about AI and its uses. She is confused among AI, DL and ML. Help her to understand these terms by explaining each of the above with the help of suitable example.	4
18	Explain all three domains of AI by giving two uses of each.	4
19	What do you mean by AI ethics? Explain AI bias and AI access in your own words.	4