PM SHRI KENDRIYA VIDYALAYA LATEHAR

SUMMER VACATION HOLIDAY HOMEWORK

CLASS- X

SESSION-205-26

Note:

1. **Section A and Section B must be done in separate homework copy.**
2. **Section C is portfolio work. It must be done in separate A4 sheets with proper pictures and diagrams. Portfolio must be submitted in channel file only. The front page of portfolio must include your school name, topic of portfolio, your name, class, section and Roll number.**

SECTION A1: OBJECTIVE TYPE QUESTIONS

1. **Answer the following questions**

i. The basis of decision making depends upon
i) availability of information
ii) past experience
iii) positive attitude
iv) self-awareness

a) i) and ii)
b) ii) and iv)
c) i), ii) and iv)
d) i), ii) and iii)

ii. _____is an AI game based on data science

(a) Rock, Paper, Scissors (b) Emoji Scavenger
(c) Mystery animal (d) Virtual Assistant

iii. Which AI application is used to recognize and identify faces in images and videos?

(a) Natural Language Processing (NLP) (b) Speech Recognition
(c) Computer Vision (d) Robotics

iv. Which one of the following is an application of AI?

(a) Remote controlled Drone (b) Self-Driving Car
(c) Self-Service Kiosk (d) Self-Watering Plant System

v. What is Artificial Intelligence?

(a) Putting your intelligence into computer (b) Programming with your own intelligence.
(c) Making a machine intelligent (d) Playing a game

vi. is an AI game based on data science

(a) Rock, Paper, Scissors (b) Emoji Scavenger
(c) Mystery animal (d)Virtual Assistant

vii. Which AI application is used to recognize and identify faces in images and videos?

(a) Natural Language Processing (NLP)
(b) Speech Recognition
(c) Computer Vision
(d) Robotics

viii. Which one of the following is an application of AI?
(a) Remote controlled Drone
(b) Self-Driving Car
(c) Self-Service Kiosk
(d) Self-Watering Plant System

ix. What is Artificial Intelligence?
(a) Putting your intelligence into computer
(b) Programming with your own intelligence.
(c) Making a machine intelligent
(d) Playing a game

x. Ravi learnt that if a laptop gets overheated, the internal parts get damaged. What happens if he leaves his device plugged in even after it is charged 100%?

(a) It can break

(b) It can stop functioning

(c) It can overheat

(d) Data can get corrupt

xi. Which of the following focuses on your ability to influence personal and professional improvement based on your self-awareness and motivation?

a) Self-regulation

b) Self-awareness

c) Self-motivation

d) All of these

xii. Which one of the following is an example of Operating System?

a) Microsoft Word

b) Microsoft Windows

c) Microsoft Excel

d) Microsoft Access

xiii. Pranjali gets up at 5 am and goes to her badminton classes. Then she comes home and finishes her homework before going to school. She does this all by herself. No

one tells her to do it. This is an example of

(a)Self-motivation

(b)External motivation

(c)Both self and external motivation

(d)Not any specific type of motivation

SECTION B : SUBJECTIVE TYPE QUESTIONS

Answer all the following questions in 50 – 80 words each

2. Define intelligence. Mention the different types of intelligence.

3. Explain the different types of intelligence with examples.
4. What is the difference between Artificial Intelligence, Machine Learning and Deep learning?
5. How Artificial Intelligence helps in decision making?
6. Kamal attended a seminar on Artificial Intelligence and has now been asked to write a report on his learnings from the seminar. Being a non-technical person, he understood that the AI enabled machine uses data of different formats in many of the daily based applications but failed to sync it with the right terminologies and express the details. Help Kamal list down the different applications of Artificial Intelligence.
7. Differentiate between Data science, NLP and Computer Vision.
8. What is AI ethics? Why is it important? Give an example.
9. What is communication? Why there is a need of effective communication?
10. What are the different elements of communication? Explain.
11. Differentiate between verbal and non-verbal communication with examples.
12. What are the 7 C's required for effective communication?
13. Explain the different barriers of effective communication with examples.

SECTION C : PORTFOLIO

1. Prepare a portfolio of 5-6 pages on the topic **"Domains of Artificial Intelligence".** Student must write the application of Artificial Intelligence along with pictures. The portfolio must be done in A4 sheets and must be submitted in channel file only. The front page of portfolio must include your school name, topic of portfolio, your name, class, section and Roll number.

NOTE: A test will be held once the school reopens. Be prepared,
Syllabus:
a). An Introduction to Artificial intelligence
b). Communication Skills
c). ICT Skills