PM SHRI KENDRIYA VIDYALAYA LATEHAR

SUMMER VACATION HOLIDAY HOMEWORK

CLASS- IX

SESSION-2025-26

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 A: OBJECTIVE TYPE QUESTIONS

1. **Answer the following questions**

i. _____is an AI game based on data science

(a) Rock, Paper, Scissors (b) Emoji Scavenger

(c) Mystery animal (d) Virtual Assistant

ii. 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

iii. 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

iv. 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

v. 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

vi. 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

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

a) Microsoft Word

b) Microsoft Windows

c) Microsoft Excel

d) Microsoft Access

viii. 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 artificial intelligence. Mention the different domains of AI.
3. Differentiate between Data science, NLP and Computer vision.
4. What are the different applications of AI in our daily life?
5. Your grandmother watches you use AI applications. She wants to understand more
   about it. Explain to her with an example how machines become artificially intelligent.
6. Define communication. What is the importance of communication?
7. Distinguish between verbal and non-verbal communication with examples.
8. What are the different types of verbal communication? Explain each of them.
9. What are the different elements of communication? Explain them.
10. What do you mean by effective communication? What are the 7C's of effective communication? Explain.

SECTION C : PORTFOLIO

1. Prepare a portfolio of 5-6 pages on the topic **"Applications 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: An oral test will be held once the school reopens.
Be prepared. Syllabus:
a). Introduction to AI
b). Communication Skills
c). ICT Skills