

**SHARDA VIDYALAYA, RISALI, BHILAI**  
**CLASS-VIII**  
**VACATION HOMEWORK**

S. No.	Subject	Topic
1.	<b>English</b>	<ol style="list-style-type: none"><li>1. Make a Portfolio to keep your Assignments /Projects safe.</li><li>2. Write 10 idioms with meaning and make sentences.</li><li>3. Write and learn all the verb forms of the 'Regular verbs'. (Any 20)</li></ol>
2.	<b>Hindi</b>	<ol style="list-style-type: none"><li>1. पाठ-6, 7 और 8 को ध्यानपूर्वक पढ़कर उनसे संबंधित लगभग दस अतिरिक्त प्रश्न सभी पाठों से लिखिए ।</li><li>2. लगभग बीस अंग्रेजी शब्दों के हिंदी रूपांतरण, शब्दकोश से देखकर लिखें एवं उनका व्याकरणिक परिचय दें । (लिंग , क्रिया , वचन , संज्ञा सर्वनाम , विशेषण )</li></ol>
3.	<b>Maths</b>	<ol style="list-style-type: none"><li>1. Prepare a Portfolio showing about the different types of quadrilaterals and their properties.</li><li>2. Express the following in the algebraic expressions in terms of x:<ol style="list-style-type: none"><li>(i) Your age</li><li>(ii) Your mother's age</li><li>(iii)Your sibling's age</li><li>(iv)Your grandfather's age</li></ol></li></ol>
4.	<b>Social Science</b>	<ol style="list-style-type: none"><li>1. Classify the mineral resources on the basis of its origin.</li><li>2. Map work :- Mark all the continents and the oceans in the world map.</li></ol>
5.	<b>Science</b>	<ol style="list-style-type: none"><li>1. Why antibiotics should not be over used? Prepare a short report.</li><li>2. Prepare a table of any five human diseases caused by bacteria, virus and fungi.</li><li>3. Mention the use of plastic in health care industry. (Answer to be done in class work copy)</li></ol>
6.	<b>Sanskrit</b>	<ol style="list-style-type: none"><li>1. अष्मद् , युष्मद् शब्दरूपं लिखत ।</li><li>2. लट्लकारः , लृट्लकारः , लङ्लकारः सूत्रं प्रतिपादयत ।</li></ol>
7.	<b>Computer</b>	<ol style="list-style-type: none"><li>1. Make a Project file on "Types of Network" or "Types of Network Topology". And also make a PPT for the same.</li><li>2. Create a Table in MS-Excel containing the following :- Roll No., Marks secured in 5 subjects in final examination and perform the Following :-<ol style="list-style-type: none"><li>(i) Enter record of 10 students.</li><li>(ii) Find the total marks secured by each student.</li><li>(iii)Using formula find out the percentage secured by each student.</li></ol></li></ol>

**Artificial  
Intelligence**

**Case Study/Scenario-based questions.**

**A. Read the following paragraph and answer the questions that follow:**

*We also experience that while browsing, various advertisements and notifications appear on the screen. Mostly, these notifications and adverts are very relevant and match our interests. This seems as if the web site knows what to show us or what is interesting for us. This happens for millions of users simultaneously. Imagine the huge amount of data that is compiled and analysed by these algorithms! Our online navigation and interactions create our unique profile called browsing signature or browser fingerprinting.*

- I. In this paragraph, the term algorithm refers to which type of algorithm?
  - a. Intelligent
  - b. Artificially intelligent
  - c. Computer
  - d. Human
- II. The browser fingerprinting is unique for every user. True/False.
- III. What is the reason that an algorithm displays us the adverts of our interest?
- IV. The primary step that is required before deriving any conclusion from the user data is \_\_\_\_\_ the data.
- V. What is the benefit of displaying relevant adverts to the users?

**B. Read the following paragraph and answer the questions that follow:**

*The ability to reason by using our knowledge is called intelligence. We perceive information in various ways. We also sense a variety of stimuli from our surroundings. This processing by our brain of what we sense and receive as input is called reasoning. How should a machine sense? An intelligent machine should first know what it is supposed to sense (images, faces, signatures, prints, audio, numbers, etc.). The action or the outcome, the response - this also falls in the domain of AI. Some of the basic expectations from a machine in the field of AI are comparing facts and making decisions, recognising speech and process the voice command, identifying blocks and barriers during movement and avoiding them, making logical comparisons, comparing complex rules to solve problems, etc.*

- I. List 2 distinct ways in which humans perceive information.
- II. If an AI-enabled machine is shown a group photograph of people, what is it supposed to do first?
  - a. Digitise the image.
  - b. Purpose to process the image.
  - c. Print the image.
  - d. Memorise the image.
- III. What is the basic expectation of a robot moving among furniture items in a room?
- IV. In which of the following categories of processing the weather prediction by an AI algorithm falls?
  - a. Speech recognition
  - b. Logical comparisons
  - c. Compare facts and make forecast
  - d. Compare complex rules
- V. How are the terms *intelligence* and *reasoning* related to each other?

**Note: - All the Vacation Homework to be done in A4 size project file paper**