

## **SAINIK SCHOOL — WINTER VACATION TASK**

### **CLASS VIII – ENGLISH**

#### **1. Article Writing (Any 2)**

Write two articles (120–150 words each) on any two of the following topics:

1. The Importance of Reading in a Student's Life
2. How Sports Build Character
3. Clean India: Our Responsibility
4. Why Mental Health Matters for Teenagers
5. Technology: A Blessing or a Curse?

(To be done in Holiday Homework (HW) notebook)

#### **2. Story Writing**

Write an original story (150–180 words each). Choose any two of the prompts:

##### **Story Prompts**

- A Strange Message: One morning you receive a message that changes everything...
- The Lost Key: You find a key in your school bag with no idea how it got there...
- The Mysterious Train: You enter a train that isn't on the timetable...
- Courage in the Dark: You get trapped during a school adventure camp...
- The Robot Friend: You build a robot that starts behaving unexpectedly...

Include: Setting, Characters, Problem, Resolution, A clear moral/theme

#### **3. Based on Unit: Travel & Adventure / Bravehearts**

**a) Poem (18–20 lines)** Write a poem about a journey you dream of taking someday using AI tools like ChatGPT. Write the detailed prompt you had entered along with the poem that was generated on colourful sheets. Use at least two poetic devices: Imagery, Alliteration, Personification, Rhyme

(2)

**b) Formal Letter** Write a letter to your Principal requesting an educational trip for Class VIII to a Science Museum, Planetarium, National Rail Museum, or Heritage Site.

**c) 1–2 Page File (Project Work)**

Prepare a file on any ONE of the following: Vande Bharat Express/ Atal Tunnel / Darjeeling Himalayan Railway / India's First Underwater Metro / Statue of Unity / INS Vikrant  
Include: 5 important facts, 1 picture/drawing, Why it is special

**d) Paragraph Writing (150 words)**

"A Train Journey I Will Never Forget"

Use: sights, sounds, people, feelings.

**4. Movie Review** Watch any children's film during the vacation and write a review including: Name of the movie, Director, Main characters, Genre, 150-word plot summary, Message/theme, What you learnt / favourite scene, Recommendation, Rating (out of 5)

**5. Grammar Revision** Revise the following : Verb Forms, Tenses, Determiners, Prepositions, Active–Passive Voice, Direct–Indirect Speech

**WINTER HOLIDAYS HOMEWORK, CLASS VIII – GEOGRAPHY**

1. Prepare a project on any one of the following topics provided below in about 10 to 12 (A4 size) pages. Prepare diagrams and paste photographs related to the topic.
  - a) "Water Resources in India: Uses and Conservation"
  - b) "Forests: Our Green Wealth"
  - c) "Soil Resources and Agriculture"
  - d) "Capital: Tools and Machines"
  - e) "Entrepreneurship: The Organiser"
2. Prepare a chart on measures of resource conservation or slogans on the Conservation of Natural Resources to create awareness.
3. Learn Ch 1 Natural Resources and their Use and Ch 7 Factors of Production thoroughly.

WINTER VACATION  
HOLIDAYS HOMEWORK

BIOLOGY

Class 8<sup>th</sup>

(3)

★ CHAPTER 1 — THE INVISIBLE LIVING WORLD BEYOND NAKED EYE

A. Objective Type Questions (1 mark each)

1. Name the scientist who discovered microorganisms.
2. Which instrument is used to observe microorganisms?
3. Bacteria are \_\_\_\_\_ celled organisms.
4. Which microorganism is used to make curd?
5. The virus that causes COVID-19 is called \_\_\_\_\_.
6. Yeast reproduces mainly by \_\_\_\_\_.
7. Fungi grow well in \_\_\_\_\_ conditions.
8. Malaria is caused by which microorganism?
9. Which microorganism fixes nitrogen in soil?
10. Which microbial group contains chlorophyll?
11. Name one disease caused by viruses.
12. The microorganisms that cause diseases are called \_\_\_\_\_.
13. Which microorganism spoils food by fermentation?
14. Name the process by which milk is converted into curd.
15. Penicillin is obtained from which microorganism?

B. Short-answer Questions (2 marks each)

1. What are microorganisms? Give two examples.
2. Differentiate between bacteria and viruses.
3. Write two beneficial uses of microorganisms.
4. What is fermentation?
5. How do fungi grow on food?
6. What are pathogens? Give examples.
7. Name two food items prepared using microorganisms and explain.
8. Why are viruses considered borderline living organisms?
9. Write two methods to prevent food spoilage.
10. What is pasteurization?

C. Long-answer Questions (3 marks each)

1. Explain the different types of microorganisms with examples.



2. Describe the role of bacteria in nitrogen fixation.
3. How do viruses reproduce? Explain with steps.
4. List three harmful effects of microorganisms.
5. Describe the process of making curd using microorganisms.
6. Write the uses of yeast in food industries.
7. Explain the role of microorganisms in medicine.
8. Describe food spoilage caused by microorganisms.
9. What is microbial decomposition? Explain its importance.
10. How do microorganisms help in cleaning the environment?
11. Explain the structure of bacteria.
12. Describe two diseases caused by microorganisms and their prevention.
13. How are vaccines prepared using microbes?
14. Write three differences between fungi and algae.
15. Explain the discovery of microorganisms by Louis Pasteur.

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#### **D. Competency-Based Questions (4 marks each)**

1. A student left cooked rice on the kitchen counter overnight. Next morning it smelled bad. Explain scientifically what happened and how it could have been prevented.
2. A dairy shop sells milk that spoils quickly. Identify possible causes and suggest preventive measures.
3. During a school visit, students observed microorganisms under a microscope. Explain how microbial size and structure affect their survival.
4. A patient suffers from typhoid. Identify the microorganism responsible, how it spreads, and preventive steps.
5. Analyze how microorganisms help in agriculture, food production and environment, giving real-life examples.

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### **★ CHAPTER 2 — HEALTH: THE ULTIMATE TREASURE**

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#### **A. Objective Type Questions (1 mark each)**

1. WHO stands for \_\_\_\_\_.
2. A balanced diet includes \_\_\_\_\_ food groups.
3. Vitamin D deficiency causes \_\_\_\_\_.
4. The disease caused by mosquito bites is \_\_\_\_\_.
5. Personal hygiene helps prevent \_\_\_\_\_ diseases.
6. Overweight and obesity are caused by \_\_\_\_\_.
7. Oral health is maintained by brushing \_\_\_\_\_ times a day.

8. The normal body temperature is \_\_\_\_\_.
  9. Communicable diseases spread through \_\_\_\_\_.
  10. Immunization protects us from \_\_\_\_\_.
  11. A disease caused by lack of iodine is \_\_\_\_\_.
  12. Carbohydrates provide \_\_\_\_\_ to the body.
  13. Which gland secretes insulin? \_\_\_\_\_
  14. Tooth decay is caused by \_\_\_\_\_.
  15. Mental health means a state of \_\_\_\_\_.
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**B. Short-answer Questions (2 marks each)**

1. What is health?
  2. What is a balanced diet?
  3. Write two ways to maintain good personal hygiene.
  4. Name two deficiency diseases.
  5. How do diseases spread?
  6. What is immunization?
  7. Why is physical exercise important?
  8. Define communicable disease with examples.
  9. What is first aid?
  10. Write two causes of obesity.
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**C. Long-answer Questions (3 marks each)**

1. Explain the components of good health.
2. Describe the importance of balanced diet.
3. What are lifestyle diseases? Give examples.
4. Explain how cleanliness prevents diseases.
5. Describe the role of vitamins and minerals.
6. How do vaccines work?
7. Explain the causes and prevention of anemia.
8. What is malnutrition? Write its effects.
9. How do microbes spread diseases?
10. Explain the importance of exercise and yoga.
11. Describe first aid for burns.

12. Explain mental well-being with examples.
13. What are deficiency diseases? Give any two.
14. Describe the digestive process.
15. How can we prevent water-borne diseases?

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**D. Competency-Based Questions (4 marks each)**

1. A child frequently falls sick due to poor diet. Analyze the possible nutrient deficiencies and suggest a diet plan.
2. A school observes rising cases of flu. Create an action plan to stop the spread.
3. A boy is overweight and tired often. Identify causes and recommend lifestyle changes.
4. A girl has tooth decay and gum bleeding. Explain scientific causes and preventive care.
5. A family lacks clean drinking water. Suggest purification and hygiene practices.

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**★ CHAPTER 3 — HOW NATURE WORKS IN HARMONY**

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**A. Objective Type Questions (1 mark each)**

1. The place where an organism lives is called \_\_\_\_\_.
2. Producers include \_\_\_\_\_.
3. The top consumer in a food chain is called \_\_\_\_\_.
4. Decomposers include \_\_\_\_\_.
5. A food web is made of interconnected \_\_\_\_\_.
6. Photosynthesis produces \_\_\_\_\_.
7. The transfer of energy in nature occurs through \_\_\_\_\_.
8. Biotic components include \_\_\_\_\_.
9. Abiotic components include \_\_\_\_\_.
10. The largest ecosystem on Earth is \_\_\_\_\_.
11. A group of similar organisms is called \_\_\_\_\_.
12. Carnivores eat \_\_\_\_\_.
13. Herbivores eat \_\_\_\_\_.
14. The green pigment in plants is \_\_\_\_\_.
15. A forest ecosystem contains \_\_\_\_\_ components.

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**B. Short-answer Questions (2 marks each)**

1. What is an ecosystem?



2. Define food chain.
3. What are producers?
4. Name two abiotic factors.
5. What are consumers?
6. What is a food web?
7. Define photosynthesis.
8. Write two roles of decomposers.
9. What is adaptation?
10. What is a habitat?

### C. Long-answer Questions (3 marks each)

1. Describe the flow of energy in an ecosystem.
2. Explain the role of producers in nature.
3. What are the different types of consumers?
4. Explain food chains with an example.
5. Describe the role of decomposers in recycling nutrients.
6. What are biotic and abiotic components?
7. Explain the interdependence of organisms.
8. What is adaptation? Explain with two examples.
9. Describe a forest ecosystem.
10. Write the importance of food webs.
11. Explain how balance is maintained in nature.
12. What happens when a species becomes extinct from an ecosystem?
13. Describe aquatic ecosystem.
14. Explain the role of sunlight in an ecosystem.
15. What are omnivores? Explain with examples.

### D. Competency-Based Questions (4 marks each)

1. A pond ecosystem is disturbed by pollution. Explain how it affects plants, animals, and decomposers.
2. A forest loses most of its top predators. Predict effects on herbivores and producers.
3. A farmer removes all worms and insects from soil. Analyze impacts on fertility and crops.
4. A grassland faces drought. Explain effects on the food chain.
5. Create a food web for a forest ecosystem and explain energy flow.

★ CHAPTER 4 — OUR HOME EARTH: A UNIQUE LIFE-SUSTAINING PLANET

**A. Objective Type Questions (1 mark each)**

1. Earth is known as the \_\_\_\_\_ planet.
2. The blanket of air around Earth is called \_\_\_\_\_.
3. The main gas in air is \_\_\_\_\_.
4. The only planet with liquid water is \_\_\_\_\_.
5. The layer protecting us from UV rays is \_\_\_\_\_.
6. Water covers about \_\_\_\_\_% of Earth.
7. The solid part of Earth is called \_\_\_\_\_.
8. The movement of tectonic plates causes \_\_\_\_\_.
9. The biosphere includes \_\_\_\_\_.
10. The earth's natural satellite is \_\_\_\_\_.
11. The hydrosphere consists of \_\_\_\_\_.
12. The atmosphere has \_\_\_\_\_ layers.
13. Earth supports life because it has \_\_\_\_\_.
14. Weather occurs in which layer? \_\_\_\_\_
15. The process of water cycle starts mainly due to \_\_\_\_\_.

**B. Short-answer Questions (2 marks each)**

1. Why is Earth called a unique planet?
2. What is atmosphere?
3. What is hydrosphere?
4. Name two conditions necessary for life.
5. What is lithosphere?
6. What is water cycle?
7. Explain the role of ozone layer.
8. What is greenhouse effect?
9. What are natural resources?
10. What is soil erosion?

**C. Long-answer Questions (3 marks each)**



1. Describe the components of Earth that support life.
2. What is the importance of atmosphere?
3. Explain the water cycle with a neat diagram.
4. Describe the structure of Earth.
5. What causes earthquakes?
6. Explain the formation of soil.
7. Describe the hydrosphere and its importance.
8. Explain weather and climate.
9. Describe the greenhouse effect.
10. Explain how water is purified naturally.
11. What are renewable and non-renewable resources?
12. How do human activities harm Earth?
13. Describe the layers of atmosphere.
14. What is global warming?
15. Explain the role of Earth's tilt in seasons.

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**D. Competency-Based Questions (4 marks each)**

1. A village faces water scarcity. Suggest scientific ways to conserve water.
2. A region is experiencing soil erosion. Analyze causes and solutions.
3. Air pollution increases in a city. Evaluate causes and suggest preventive measures.
4. Climate change is affecting weather patterns. Explain scientific reasons and impacts.
5. A student wants to protect natural resources. Suggest an actionable plan.

**\*Holiday Homework for Class 8:**

**- \*Subject: Chemistry**

**1. Key Concepts:**

- Define solute, solvent, and solution with two examples each.
- Explain the difference between a saturated and unsaturated solution.

**2. Hands-on Activities:**

- Experiment: Prepare a saturated sugar solution at home. Observe what happens when you add more sugar. Record your steps and findings.
- Test the solubility of salt, sugar, and chalk powder in water. Tabulate your results.

**3. Real-Life Applications:**

- List 3 examples each of solid-liquid, liquid-liquid, and gas-liquid solutions you encounter daily.
- How is the concept of solubility used in making beverages like lemonade or juice?

**4. Factors Affecting Solubility:**

- Investigate how temperature affects the solubility of sugar in water. Write a short report with observations.
- Explain why stirring and particle size impact the rate of dissolution.

**5. Creative Project:**

- Design a poster on "Solutions Around Us" highlighting different types of solutions and their uses.
- Write a short story (150-200 words) about a "journey of a sugar molecule dissolving in water."

**6. Quiz Time!**

- Fill in the blanks:
  - In a saltwater solution, salt is the \_\_\_\_\_ and water is the \_\_\_\_\_.
  - Increasing the \_\_\_\_\_ generally increases the solubility of solids in liquids.
- MCQ: Which of the following is an example of a gas-in-liquid solution?

- a) Soda water
- b) Brass
- c) Saltwater

**Submission:** Complete the tasks neatly in your science notebook and submit on the first day after holidays.

CLASS - VIII.

⑪

SOCIAL SCIENCE - HISTORY, CIVICS

1. Revise the topics of History & Civics for Final Exams.
2. Prepare 2 projects on HISTORY - (i) MARATHA EMPIRE - SHIVAJI & MARATHA ADMINISTRATION  
(ii) PARLIAMENT - ORGANISATION & WORKS  
OR  
ELECTIONS - ORGANISATION & WORKS
3. Rewrite Extra Questions on separate notebook (of History & Civics)

27/11

PHYSICS

1. Revise the given chapters thoroughly and write out 10 questions from each chapter found in chapter or extra handbook.  
CH-4 : Electricity : Magnetic & Heating effect  
CH-5 : Forces.  
CH-10 : Light Mirrors & Lenses.
2. Make a project or chart (detailed) on any of given topic.
  - All Types of Forces
  - Types of Mirrors
  - Types of Lenses.



(12)

SAINIK SCHOOL KUNJPURA, KARNAL  
WINTER VACATION TASK, CLASS VIII, SUBJECT Mathematics

- 1) Revise the chapters & Do practice 10 questions from each chapter from extra handbook.  
(chapters I to II)
- 2) Identify five different situations in day-to-day life where we can use Direct & Inverse Proportion  
Frame three problems for both & solve them
- 3) Make a 3-D Model or chart on any of given topics
  - Different shapes of quadrilateral
  - Formulas of Identities.
  - Formulas of solid shapes 2-D & 3-D.

Poys

शीतकालीन अवकाश गृहकार्य

विषय - हिन्दी, कक्षा - आठवीं

1 किसी एक विषय पर चार्ट-पेपर / A4 शीट पर परियोजना फ़ाइल बनाइए :

1. महादेवी वर्मा - जीवन परिचय
2. कबीर की जीवनी व 15 दोहे ।
- 3 किसी त्योहार का महत्व - (दीपावली/ईद/रक्षा-बन्धन)
- 4 प्रकृति संरक्षण - पेड़ बचाओ, पानी बचाओ।

2 स्त्री सशक्तिकरण सुभाष चन्द्र बोस की दृष्टि से ।

कम से कम 8 से 10 A4 साइज की फाइल में तैयार करना ।

3। नीचे दिए गए में से किसी 1 विषय पर 150 शब्दों का लिखिए :

1. चित्र वर्णन ।
2. विज्ञापन लेखन ।
3. सार लेखन ।
- 4। नीचे दिए गए पाठों में से उनके महत्वपूर्ण प्रश्न-उत्तर लिखिए।

(हर पाठ से कम से कम 3 प्रश्न)

पाठ सूची

- 1 एक आशीर्वाद ।
- 2 मत बाँधो ।
- 3 आदमी का अनुपात ।
- 4 तरुण के स्वप्न ।
- 5 एक टोकरी भर मिट्टी ।
- 5 कक्षा में कराया गया सम्पूर्ण पाठ्यक्रम कण्ठस्थ कीजिए।
- 6 व्याकरण - सम्पूर्ण पाठ्यक्रम कण्ठस्थ कीजिए ।

विषय - संस्कृत, कक्षा - आठवी

1 निम्नलिखित पाठों का हिन्दी अनुवाद कण्ठस्थ कीजिए ।

(क) वर्णोच्चारण - शिक्षा ?

(ख) सम्यग्वर्णप्रयोगेण ब्रह्मलोके महीयते । श्लोक हिन्दी व श्लोक याद करना ।

2 (1- 100) तक संस्कृत गिनती उत्तर पुस्तिका में लिखिए।

कम से कम 5 बार ।

3 पाठ - नवमः, दशमः, एकादशः, द्वादशः अभ्यास लिखना व याद करना ।

4 शब्दरूपः- सर्वनाम शब्द ( दधि , वारि , आत्मन्, भवत्) तीनों लिंगों में लिखिए 5 बार हर एक व याद करें।

5 धातुरूपः- ( पठ् , चल्, वद्, गम्) धातुओं को (लट्, लृट्, लुट्, लङ्) लकारों से लिखिए 5 बार हर एक व कण्ठस्थ करें।

6 परिशिष्टम् ? सम्पूर्ण याद करना आते ही परीक्षा होगी ।