

PM SHRI KV NO.1 JHANSI CANTT, AGRA REGION

Class – 8

Holiday homework

English

- 1) Write a letter to the Editor thereby drawing their concern towards the rash driving trend amongst youngsters causing a threat to many.
Suggest some measures in your formal letter.
- 2) Write a diary entry thereby describing your thoughts emotions and opinions when you happen to meet an old classmate of yours in Regional Sports meet who got transferred from your school.
- 3) Write an article on the topic "Technology is curbing intelligence".
- 4) Write a notice giving all necessary details for the organisation of "Book fair" in your school.
Being the associate member of Literary Club.
- 5) Write a report writing for your school magazine thereby describing important details of the House meeting held at your school being the associate member of Co-curricular Activities department.

All this has to be done in your English fair notebook only.

MDP has to be prepared in a separate file.

Hindi

प्रश्न 1 निम्नलिखित सभी विषयों पर लगभग 100-100 शब्दों में अनुच्छेद लिखिए-

- | | |
|-------------------------------|--|
| (1) क्रिसमस दिवस (25 दिसम्बर) | (2) मेरा प्रिय पालतू जानवर-तोता |
| (3) शिक्षक दिवस (5 सितंबर) | (4) विश्व योग दिवस का महत्त्व (21 जून) |

प्रश्न 2 अपने मित्र को कक्षा में प्रथम आने पर बधाई देते हुए एक पत्र लिखिए।

प्रश्न 3 विद्यालय के प्राचार्य को चरित्र प्रमाण-पत्र प्राप्त करने हेतु एक प्रार्थना पत्र लिखिए।

प्रश्न 4 निम्नलिखित शब्दों के वचन बदलकर लिखिए-

संतरा, पपीता, गमला, ताला, कपड़ा, रास्ता, छाता, बछड़ा, बकरा, साला, भानजा, भतीजा, रात, कहानी, दरी

प्रश्न 5 सामयिक परीक्षा (PT-1) के पाठ्यक्रम से संबंधित पाठों को पढ़ेंगे और याद भी करेंगे। (1 से 3 पाठ)

प्रश्न 6 अपनी मल्हार पुस्तक में से कोई 4 कविताएँ लिखेंगे और याद भी करेंगे।

प्रश्न-7 सामयिक परीक्षा (PT-1) में आने वाले पाठों की शिक्षार्थी डायरी भी बनाएंगे। (1 से 3 पाठ)

Maths

CLASS 8 - MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Think • Solve • Learn • Apply • Excel

Maths is not just numbers, it's a way of thinking!



SECTION A - NUMBER SYSTEM

1. Task 1: Number Exploration

Write any 10 numbers (up to 1,00,00,000).

For each number:

- ★ Write number name
- ★ Write expanded form
- ★ Find place value of any one digit

T	L	TTh	Th	H	T	O
2	3	5	7	4	8	6

Expanded form:
 $2,00,00,000 + 30,00,000 + 5,00,000 + 70,000 + 4,000 + 800 + 6$

2. Task 2: Rational Numbers

Perform operations:

- ★ Addition
- ★ Multiplication
- ★ Subtraction
- ★ Division

$$\frac{2}{3} + \frac{1}{6} = ?$$

SECTION B - OPERATIONS

3. Task 3: Squares & Cubes

Find squares and cubes of numbers from 1 to 20.

$$5^2 = 25$$

$$5^3 = 125$$

4. Task 4: Simplification

Solve expressions using BODMAS.

$$18 \div 3 + 4 \times 2 - 5 = ?$$

BODMAS

B - Brackets
 O - Of
 D - Division
 M - Multiplication
 A - Addition
 S - Subtraction

SECTION C - ALGEBRA

5. Task 5: Algebraic Expressions

Simplify expressions.

- ★ $3x + 5y - 2x + y$
- ★ $4a - 3b + 2a - b + 6$

$$2x + 3y$$

6. Task 6: Linear Equations

Solve linear equations in one variable.

- ★ $3x + 7 = 22$
- ★ $5(x - 4) = 15$
- ★ $7x - 9 = 26$

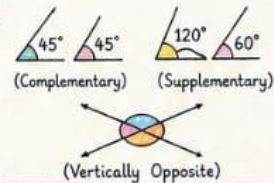


SECTION D - GEOMETRY

7. Task 7: Lines & Angles

Draw and label:

- ★ Complementary angles
- ★ Supplementary angles
- ★ Vertically opposite angles



8. Task 8: Quadrilaterals

Draw the following types of quadrilaterals and write their properties.



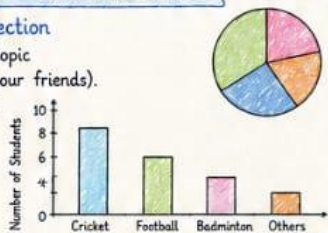
SECTION E - DATA HANDLING

9. Task 9: Data Collection

Collect data on any one topic (e.g., favourite sports of your friends).

Represent the data using:

- ★ Bar Graph
- ★ Pie Chart



SECTION F - REAL LIFE MATHS

10. Task 10: Profit & Loss

Prepare examples based on:

- ★ Profit
- ★ Loss
- ★ Discount



11. Task 11: Budget Planning

Plan a weekly or monthly budget.

- Include:
- ★ Income
 - ★ Expenses
 - ★ Savings



SECTION G - THINKING SKILLS

12. Task 12: Word Problems

Solve real-life based problems.

Examples:

- ★ A shopkeeper bought 40 items at ₹25 each and sold at ₹35 each. Find his profit.
- ★ The perimeter of a rectangular field is 220 m. If its length is 65 m, find its breadth.

13. Task 13: Puzzles & Patterns

Solve the number puzzles.

Examples:

- ★ Find the next number: 2, 6, 12, 20, 30, ?
- ★ Create your own pattern and let your friends solve it.



SECTION H - PROJECT WORK

14. Task 14: Maths Scrapbook

Make a scrapbook including:

- ★ Important formulas
- ★ Algebra concepts
- ★ Graphs
- ★ Real-life applications



15. Task 15: Maths Around Me

Observe and write:

- ★ Use of maths in daily life
- ★ Shapes and patterns around you



SUBMISSION GUIDELINES

- ✓ Maintain a neat and well-organized notebook or file.
- ✓ Show all steps clearly.
- ✓ Use diagrams and colours.
- ✓ Submit after the holidays.

Remember!

- ♥ Practice daily
- ♥ Be curious
- ♥ Stay consistent
- ♥ Enjoy learning maths!



WHY THIS HOMEWORK IS SPECIAL

- ★ Builds strong mathematical foundation
- ★ Enhances logical reasoning
- ★ Applies maths in real life
- ★ Makes learning fun and meaningful



LET'S MAKE THIS SUMMER PRODUCTIVE AND FUN WITH MATHS!

Social science by Anuj Sir

- 1) Learn CRM of all days.
- 2) Learn Chapter Natural Resources and their Use.
- 3) Complete fair notebook.

Social Science by Dharmendra Sir

1. Improve your writing skill in English language.
2. Read chapter 2nd and chapter 3rd and write the doubts of chapters.
3. Elaborate the contribution of Vijayanagar Empire in Indian History .
4. Write the biography and contribution of the following -
 - a. Akbar
 - b. Maharana Pratap
 - c. Shivaji Maharaj

Sanskrit

कक्षा - अष्टमी

- 1 - अस्, भू, धाव्, खाद्, पिब् धातु रूपाणि लट्लकारे, लङ्लकारे, लोट्लकारे, लृट्लकारे, विधिलिङ्लकारे च स्मरन्तु लिखन्तु च।
- 2 - मुनि, साधु, बालक, बालिका, तत्, किम् शब्दरूपाणि स्मरन्तु लिखन्तु च।
- 3 - संस्कृत भाषायां प्रतिज्ञा स्मरन्तु लिखन्तु च।
- 4 - संस्कृत श्लोक (5) स्मरन्तु।
- 5 - अपने घर में प्रयोग होने वाली १० वस्तुओं (जैसे - पुस्तकः, दर्पणः, पटलः, कलशः, लेखनी इत्यादि) के नाम संस्कृत में लिखिए और उनका चित्र बनाइए।

Arts

Drawing

Draw Human Figure (simple posture)

Practice object shading (pencil work)

Activity

Create Madhubani /Gond art

Design a decorative border pattern

Project Work

Topic: Elements of Art (Line, Shape, Color, Texture)

Explain with drawings

Vocational education

Learn all questions and complete the activity on Hydroponics: Growing Plants Without Soil.

AI

Note : write all answers in your AI fair copy

What is computational thinking?

What is Artificial Intelligence?

What are the domains of Artificial Intelligence?

What are the applications of Artificial Intelligence?

What is Computational Thinking and Artificial Intelligence?

Science

Note : Holiday Home work for class 8A and 8C

1. Prepare MDP on topic The solar system and MOON.

2. COMPLETE LEARNERS DIARY.

3. WRITE TWO ACTIVITIES EACH FROM CHAPTER 2 and 3 on A4 PAGES and compile in a transparent file.

4. Watch movie Chernobyl on jio hotstar or Netflix and write a scientific review.

Science

Holiday homework for class 8B

CLASS 8 SCIENCE SUMMER VACATION HOME WORK

PROJECT- Anyone of the following-a} Water Filtration System b} solar oven c) Electromagnetic Train:
d}solar powered car/wind turbine e} 3D Model of Bactria

Name of the student : _____

Roll no : _____ Class : _____ Date: _____

Multiple Choice Questions

1.Which of the following is/are considered good habits for maintaining a healthy lifestyle?

- A. Eating a balanced diet with plenty of fruits and vegetables
- B. Exercising regularly and staying active
- C. Spending too much time on mobile phones or digital screens
- D. Getting enough sleep every night

Choose the correct answer from the options given below.

- (a) A, B, and D only
- (b) A and C only
- (c) B and D only
- (d) All of these

2.A person notices that whenever walking near an industrial area, breathing feels difficult and eyes start to water. What is the most likely explanation?

Health The Ultimate Treasure Class 8 Worksheet with Answers Science Chapter 3 2

- (a) Clean air in industrial zones contains extra moisture
- (b) Factories release pollutants that irritate the respiratory system
- (c) Dust in clean air causes discomfort
- (d) Fresh air increases sensitivity to smells

What makes non-communicable diseases different from communicable diseases?

- (a) They spread quickly from person to person
- (b) They are caused by bacteria and viruses
- (c) They are not spread from one person to another and may be linked to lifestyle
- (d) They only occur in tropical countries

4.Analyse the image given below for the symptoms of a disease and identify the causative agent of the same.

- (a) Virus
- (b) Bacteria
- (c) Worm
- (d) Protozoa

5. Carefully read the following list of diseases. Some of them are communicable, while others are non-communicable.

- I. Typhoid
- II. Diabetes
- III. Chickenpox
- IV. Cancer

Based on the information provided in the text, how many of these diseases are communicable?

- (a) One
- (b) Two
- (c) Three
- (d) Four

6. Which of the following diseases can cause, sore throat, fever, cough, and body ache? 7. Which of the following match-pairs is correct?

- (a) Typhoid – Lungs
- (b) Tuberculosis – Liver
- (c) Ascariasis – Intestine
- (d) Hepatitis A – Intestine

8. Which of the following statements about malaria is correct?

- (a) Malaria is caused by a virus and affects only the skin
- (b) Malaria is caused by protozoa and affects the liver and blood
- (c) Malaria spreads through contaminated food
- (d) Malaria is a non-communicable disease

Question 9.

Which combination of factors most commonly contributes to diabetes

- (a) Hormonal imbalance, excessive iodine, high protein diet
- (b) Excessive exercise, low-fat diet, infections
- (c) Genetic disorders, bacterial infection, mosquito bites
- (d) Lack of physical activity, unhealthy eating habits, being overweight
- (d) Lack of physical activity, unhealthy eating habits, being overweight

10. Which of the following statements about vaccines is correct?

- (a) Vaccines provide acquired immunity by helping the immune system recognise harmful germs
- (b) Vaccines are effective only against non-communicable diseases
- (c) Vaccines cure diseases after a person gets sick
- (d) Vaccines are made only from live pathogens

Question 11.

If a person stops taking antibiotics halfway through treatment because they start feeling better, what might happen?

- (a) All bacteria in the body are destroyed permanently
- (b) The remaining bacteria can become resistant and cause a stronger infection later
- (c) The medicine becomes stronger when restarted
- (d) The infection turns into a viral disease

Assertion-Reason Questions And Answers

Choose the correct answer from the options given below.

- (a) Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
- (b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
- (c) Assertion is true, but Reason is false.
- (d) Assertion is false, but Reason is true.

Question 1.

Assertion: Living in polluted surroundings increases the risk of illness.

Reason: Polluted air contains harmful substances that can affect breathing and health.

Question 2.

Assertion: Non-communicable diseases are becoming more common in India.

Reason: These diseases spread quickly from one person to another through direct contact.

Question 3.

Assertion: Typhoid is a non-communicable disease.

Reason: Typhoid mainly spreads through contaminated food and water.

Question 4.

Assertion: Vaccination protects people by creating acquired immunity.

Reason: Antibiotics work the same way as vaccines to prevent infections.

Question 5.

Assertion: Overuse of antibiotics can be dangerous.

Reason: Misusing antibiotics may lead to bacteria becoming resistant and harder to treat.

Fill in the Blanks

Question 1.

Fill in the blanks by using appropriate words from the box given below.

Edward Jenner, cancer, healthy, disease, pathogens, antibiotic resistance,
cowpox, non communicable, antibiotics, regular exercise

- (a) Eating a balanced diet, doing _____ and getting enough sleep are examples of _____ habits.
- (b) Organisms that cause _____, such as bacteria, viruses, fungi, worms, or protozoa, are called _____.
- (c) Diseases like _____, diabetes and asthma are called diseases because they do not spread from person to person.
- (d) _____ discovered that people infected with _____ did not catch smallpox.
- (e) When bacteria survive and multiply despite _____ treatment, it is called _____.

Question 2.

Fill in the blanks by unjumbling the words given in the bracket:

- (a) A _____ (essidae) is any condition that affects the normal working of the body or mind.
- (b) _____ (erbutsisculo) is a communicable disease that mainly affects the lungs and spreads through the air when an infected person coughs or sneezes.
- (c) _____ (mmniue) system helps the body to fight against disease-causing germs.
- (d) The first antibiotic discovered by Alexander Fleming was called _____ (incillinep).
- (e) The practice of using cowpox material to protect against smallpox was called _____ (nocavacinti).

True/False

Question 1.

State whether the following statements are True (T) or False (F).

- (a) Person's health depends only on their diet and exercise habits.
- (b) Typhoid spreads mainly through contaminated food and water rather than direct contact.
- (c) Edward Jenner's work on smallpox was one of the first examples of using a vaccine to protect against disease.
- (d) Antibiotics can cure infections caused by viruses like the flu and common cold.

The statement can be corrected as antibiotics cannot cure infections caused by viruses as they are only effective against bacterial infections.

(e) Clean surroundings and proper waste disposal can lower the risk of many illnesses.

Question 2.

Write Yes or No for each of the following statements.

(a) Breathing polluted air near factories may lead to problems such as irritation of the eyes and difficulty in breathing.

(b) Non-communicable diseases are becoming more common in India due to changes in lifestyle and eating habits.

(c) Obesity and high blood pressure are health conditions that can spread through contact with an infected person.

(d) The Air Quality Index (AQI) shows whether the air in an area is clean or polluted.

(e) Vaccination prepares the body to respond quickly if the same germ enters in the future.

Match the Following

Question 1.

Match each disease in Column I with the correct description in Column II.

Column I

Column II

(a) Typhoid (i) Causes fever, sore throat, cough, and body ache

(b) Tuberculosis (ii) Caused by bacteria; mainly affects the lungs

(c) Malaria (iii) Spreads by mosquito bite; causes chills and fever

(d) Common cold (iv) Spreads through contaminated food and water

(e) Diabetes (v) Non-communicable disease linked to lifestyle

B. Subjective Type Questions

Define the Following Terms

1. Pathogen

2. AQI

3. Communicable disease

. Acquired immunity

5. Vaccines

6. Antibiotics

Give Reasons for the Following

Question 1.

It is necessary to avoid stagnation of water around residential areas.

Question 2.

Antibiotics should not be taken without a doctor's prescription.

Very Short Answer Type Questions

Question 1.

Name any two examples of communicable diseases.

Question 2.

What is the full form of NCDs?

Question 3.

Which common disease affects the image given below and spreads through the air when an infected person coughs?



Question 4.

What causes malaria, and mention one preventive measure against it.

Question 5.

A child is suffering from high fever, headache, muscle and joint pain, along with nausea. The doctor notices red rashes on the skin and asks if there has been mosquito breeding near the house. Which disease is the child likely suffering from?

Question 6.

Which disease(s) among the following may spread if drinking water gets contaminated by the excreta from

an infected person?
Hepatitis A, Tuberculosis, Common cold, Cholera, Chickenpox.

Question 7.
Complete the given table by fill in the blanks.

Disease	Causal Agent	Site of Infection	
Chickenpox	___ (A) ___	Respiratory tract, ___ (B) ___	
Measles	___ (C) ___	___ (D) ___	
(A) _____	(B) _____	(C) _____	(D) _____

Question 8.
Name the scientist who studied how hormones and certain viruses are linked to cancer.

Question 9.
How did Dr. M.K. Bhan's work on the Rotavirus vaccine help improve children's health in India?

Question 10.
Name the scientist who discovered the first antibiotic.

Short Answer Type Questions

Question 1.
List any four good habits that contribute to maintaining a healthy lifestyle. Explain how each habit positively impacts overall health and well-being.

Question 2.
Differentiate between communicable disease and non-communicable disease.

Question 3.
Identify the disease given in the image below and mention three preventive measures of the same.



Question 4.
(a) Name any three diseases that affect the human intestine.
(b) For each disease, mention the microorganism responsible for causing it.

Question 5.

Why does the human body show a stronger and faster immune response during the second exposure to the same pathogen?

Question 6.

Deadly disease smallpox was eradicated by vaccine. Comment.

Long Answer Type Questions

Question 1.

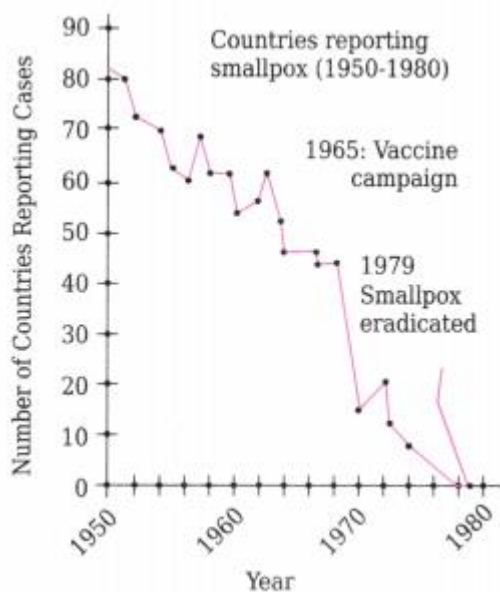
Explain how contaminated water and food can lead to the spread of diseases. Name two such diseases, mention their causative agents, body parts affected, main symptoms, and preventive measures.

Question 2.

List and explain the various personal and community hygiene practices that are important for preventing the spread of infectious diseases.

Question 3.

Observe the graph showing the number of countries reporting smallpox cases between 1950 and 1980.



(a) What significant step was taken in 1965 to reduce smallpox cases globally?

(b) What does the graph indicate about the effectiveness of this step by the year 1979?

(c) Mention one reason why the number of cases declined sharply after 1965.

Question 4.

How does antibiotic resistance develop in bacterial pathogens over time, and what important precautions should be followed by individuals and communities to help reduce or prevent the spread of antibiotic resistance?

Case Based Questions

Question 1.

Reena fell sick with a high fever, sore throat, and cough. The doctor explained that she had the flu. Reena's elder brother had a bacterial throat infection and was prescribed antibiotics to treat it. Reena's parents thought giving her the same antibiotics would help her recover faster. However, the doctor warned them not to use antibiotics without advice.

I. What is the most likely reason the doctor did not recommend antibiotics for Reena's illness?

- (a) Antibiotics only work on fungal infections
- (b) Antibiotics are meant for bacterial infections, not viral infections like the flu
- (c) Antibiotics can treat all types of infections equally
- (d) Antibiotics are used mainly to prevent diseases before they happen

Answer:

- (b) Antibiotics are meant for bacterial infections, not viral infections like the flu

II. What can happen if antibiotics are used when they are not needed or without a doctor's advice?

- (a) The infection changes into a viral disease
- (b) The medicine becomes stronger when reused later
- (c) Bacteria can develop resistance and become harder to treat
- (d) Viruses stop spreading in the body

Answer:

- (c) Bacteria can develop resistance and become harder to treat

III. Which statement best describes the difference between Reena's illness and her brother's illness?

- (a) Both were caused by bacteria and required the same treatment
- (b) Reena's illness was caused by a virus, while her brother's illness was caused by bacteria
- (c) Both illnesses could be treated with antibiotics
- (d) Reena's illness was more serious because it needed antibiotics immediately

Answer:

- (b) Reena's illness was caused by a virus, while her brother's illness was caused by bacteria

Question 2.

Following several days of continuous rainfall, many residents in a village began experiencing high fever, weakness, and body aches. Upon visiting the area, health workers observed stagnant water collected in uncovered containers, old tyres, and discarded utensils around homes. Despite early signs of illness, the community did not take preventive action, and the number of cases rapidly increased.

I. What does the rise in fever cases after rainfall most likely indicate?

- (a) Water-borne disease spread through contaminated drinking water
- (b) Air-borne disease caused by humid weather conditions
- (c) Vector-borne disease due to mosquito breeding in stagnant water
- (d) Contact-borne disease spreading through physical interaction

Answer:

- (c) Vector-borne disease due to mosquito breeding in stagnant water

II. What immediate step should the community take to prevent the spread of disease after rainfall in such situations?

- (a) Burn all garbage and plastic waste.
- (b) Take vitamins to boost the immunity.
- (c) Cover water containers and remove stagnant water around homes.
- (d) Stay indoors during rainfall.

Answer:

- (c) Cover water containers and remove stagnant water around homes.

Question 3.

After returning from a village fair, Meena began to suffer from severe abdominal pain, watery diarrhoea, and mild fever. It was later found that she had consumed food and water from an open roadside stall where hygiene was not properly maintained. Health workers later confirmed multiple similar cases in the area.

- (a) Which disease is Meena most likely suffering from?

- (b) What is the most likely cause of this disease?

- (c) Mention two preventive measures that could have helped avoid this condition.

Question 4.

Sita and Gita are two close friends who both became mothers around the same time. Sita follows a traditional and cautious approach when it comes to her baby's health. She does not allow doctors to give any medicines through injections to her child because she believes it might be harmful or unnecessary. On the other hand, Gita is educated and trusts modern medical advice. She allows doctors to give her baby the required vaccinations and injections.

After some time, Sita's baby started suffering from several illnesses and health problems, while Gita's baby remained healthy and strong.

- (a) Why did Sita's baby become sick while Gita's baby stayed healthy?

- (b) What risks do babies face if they do not receive proper vaccinations?

Skill-Based Activities

Question 1.

Classify the following diseases into Communicable and Non-communicable diseases:

Edward Jenner, cancer, healthy, disease, pathogens, antibiotic resistance, cowpox, non communicable, antibiotics, regular exercise
--

Communicable & Non-communicable

Communicable	Non-communicable

Question 2.

Unscramble the words in the brackets to write the correct answer based on the hints,

(a) A mosquito-borne disease that causes fever and chills, (lraaima)

(b) A viral disease that causes itchy rashes and blisters, mainly in children, (hickcpxone)

(c) A disease caused by contaminated food or water, leading to loose stools and dehydration, (olerhac)

(d) Microscopic agents that can cause diseases like influenza and measles.(irsuv)

(e) A harmful microorganism that causes diseases in plants, animals, or humans, (tahgenop)

Question 3.

Circle the odd one out and state why it does not belong to the groups.

- (a) Hepatitis A, Cholera, Ascariasis, Dengue
- (b) Common cold, chickenpox, Measles, Tuberculosis
- (c) Blood pressure, diabetes, Hepatitis A, Cancer
- (d) Cholera, Typhoid, Ascariasis, Malaria.

Question 4.

Complete the following word puzzle with the help of clues given below.

Down

- 1. Substances used to kill or stop the growth of bacteria.
- 3. Abnormal or excessive fat accumulation that may impair health.
- 4. An organism (like a mosquito) that transmits diseases.

Across

- 2. A condition in which the body cannot regulate blood sugar properly.
- 5. The body's ability to fight infections and diseases.
- 6. Microorganism that cause a disease.

