

PM SHRI KENDRIYA VIDYALAYA GANESHKHIND PUNE

SUMMER VACATION YR 2025-2026

STD- IX B/C

SUB – SCIENCE HOLIDAY HW

1.Revise Chap.1 Matter in our surrounding and Fundamental unit of life

2. Watch **Videos** of chap.1 and 5

I) <https://www.youtube.com/watch?v=ssa65eDYP3Q>

II) <https://www.youtube.com/watch?v=fTWiFQmLqZ8>

3. **Solve MCQ** on Chap. 1 and 2 (write or print 10 questions of each)

A) <https://www.studiestoday.com/mcq-chemistry-cbse-class-9-chemistry-matter-our-surroundings-mcqs-set-b-311610.html>

B) <https://www.studiestoday.com/mcq-chemistry-cbse-class-10-chemistry-matter-around-us-pure-mcqs-300523.html>

4.**LIVE WORKSHEET**- label the parts of plant and animal cell (drag n drop n finish n check your scores <https://www.liveworksheets.com/w/en/science/632852>

<https://www.liveworksheets.com/w/en/science/7990100>

<https://www.liveworksheets.com/w/en/science/591602>

5.**Practical 1** – Watch Video (**Boiling Point of Water - MeitY OLabs**)

Determination of the melting point of ice and the boiling point of water

b) <https://www.youtube.com/watch?v=nZXoe0fgJ8Q>

6.**PRACTICAL 2 – (Onion and Cheek Cells - MeitY OLabs)**

Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells, to record observations and draw their labeled diagrams.

<https://www.youtube.com/watch?v=wMgXsrpVrJg>

7. PREPARE **SCIENCE MAGAZINE** for class – (Collect some amazing facts, interesting info, puzzles, riddles, quiz, articles, scientific information, discoveries, inventions, poems, slogans, science drawings, scientist information, stories how things were discovered, scientific definition, our eminent Indian scientist, space programmes, science and technology, astronomical events, medicine etc.)

Write neatly and in creative manner on A-4 size paper.

KENDRIYA VIDYALAYA, GANESH KHIND, PUNE

Session: 2024-25

Holiday homework

Class - VIII

Subject - English

Q.A) Read the following paragraph carefully and answer the questions.

The year 1997 marked the birth centenary of Enid Blyton, the author whose books are still hot favourites with all of us. Enid Blyton was born in London on 11 August 1897. As a child, her mother wanted her to become a famous concert pianist, but young Enid had other ideas. By the age of 8, she was found in her room scribbling away her stories and poems. In her childhood, Enid was not allowed any pets, but she made up for this as an adult.

Enid's first job was as a nursery school teacher. She soon discovered a sure way of keeping her class quiet by telling them a story! So she started writing them. After her first book, 'Child Whispers', was published in 1922, Enid went on writing a story nearly every fortnight. By the time she died in 1963 aged 71, she had written more than 700 books. [Taken from The Statesman, 7 Sept 1997 in an abridged form]

1) Where was Enid Blyton born?

- A. London B. New York
- C. Paris D. Rome

2) What did Enid Blyton's mother want her to become?

- A. A writer B. A teacher
- C. A concert pianist D. A doctor

3) At what age did Enid Blyton start writing stories and poems?

- A. 5 B. 6
- C. 7 D. 8

4) What was Enid Blyton's first job?

- A. A writer B. A teacher
- C. A nurse D. A doctor

5) How did Enid Blyton keep her class quiet when she was a teacher?

- A. By giving them sweets B. By showing them a movie

C. By telling them a story D. By playing a game

6) How often did Enid Blyton write a new story after her first book was published?

A. Every day B. Every week
C. Every fortnight D. Every month

7) How many books did Enid Blyton write in total?

A. More than 500 B. More than 600
C. More than 700 D. More than **800**

8) When did Enid Blyton die?

A. 1953 B. 1963
C. 1973 D. 1983

9) What was Enid Blyton's first book?

A. Child Whispers B. The Famous Five
C. The Secret Seven D. Malory Towers

10) Enid Blyton was allowed to have pets when she was a child. (True/False)

Q.B) Read the following paragraph carefully and answer the questions. (5)

Global warming is the term used to describe a gradual increase in the average temperature of the Earth's atmosphere and its oceans. This causes a change in the Earth's climate. Global warming occurs when carbon dioxide (CO₂) and other air pollutants and greenhouse gasses collect in the atmosphere and absorb sunlight and solar radiation that have bounced off the Earth's surface. Normally, this radiation would escape into space. But these pollutants, which can last for years even up to centuries in the atmosphere, trap the heat and make the planet warmer. This is known as the greenhouse effect.

2. Climatologists agree that the average temperature of the earth has risen between 0.4 and 0.8°C over the past 100 years. They feel that in the past 50 years, the average global temperature has increased at the fastest rate in recorded history. This is chiefly because the increased volumes of carbon dioxide and other greenhouse gases released by the burning of fossil fuels, land clearing, agriculture and other human activities have been the chief causes of the global warming that has occurred over the decade. Scientists now predict that average global temperatures could increase between 1.4 and 5.8°C by the year 2100.

3. Global warming has many environmental, economic, and health consequences. It will be manifested in the melting of the polar ice caps, as well as an increase in the occurrence verity of storms and other severe weather events such as wildfires. Rising sea levels could lead to coastal flooding. Thus, there

could be pests, heat waves, heavy downpours and increased flooding as a result of global warming. And these could damage or destroy agriculture and fishing industry. Disruption of habitats such as coral reefs and the Alpine meadows could drive many plant and animal species to extinction. Allergies, asthma and infectious disease outbreaks will become more common due to higher levels of air pollution and the spread of conditions favourable to microorganisms and mosquitoes.

1) What is global warming?

2) What prevents radiations from escaping into space?

3) What is the greenhouse effect?

4) Name some human activities that lead to global warming.

5) Mention two environmental effects of global warming.

Q.C) Do as directed.

- 1) Give me ____ kilogram of sugar. (Use- a/an/the)
- 2) Many tourists _____ us every year. (visit/visits)
- 3) Common people _____ the government. (Use- election/ elect/ elects)
- 4) The war broke _____ (down/into/up/out) in China.
- 5) The president gave _____ (away/back/in/to) the prizes.

6) Premchand wrote this novel. (Change the voice)

7) Gopal baked a cake on his mother's birthday. (Change the voice)

8) The scissors belongs to me. (Correct the error.)

9) Rewrite the jumbled sentences.

a)coffee/ let's go/ restaurant/ into/have/the/and

b)dog/ faithful/ is/ the/ a / animal

Q.D) Write a paragraph on-

i) My favourite freedom fighter

ii) Child Labour

Q.E) You are Ramesh/ Reema living at ABC, Pune. Write a letter to your friend describing your school's Annual day function, celebrated recently.

PM SHRI KENDRIYA VIDYALAYA GANESHKHIND

SUMMER VACATION HOME-WORK (2025-26)

SUBJECT-MATHS

CLASS-9TH

Instructions for Submission:

- Use Homework note for solving and don't write solutions from the google/internet.
- Graphs must be drawn on proper graph paper (if required).
- Submission Date: First day after summer vacation.
- All work must be handwritten.
- Marks will be awarded for neatness, completeness, and creativity.
- If any question is not clear students can leave that question or ask to me on WhatsApp. And before doing home work once go through these video session.
- <https://youtu.be/KfYjnW6hPkY>
- <https://youtu.be/INPWdFZKxmg>
- <https://youtu.be/TN8UrTwc4P8>
- <https://youtu.be/aWxEODQTtJc>
- <https://youtu.be/CvvrXVUoBBk>
- <https://youtu.be/Nmi-ioE3VzU>

1. Classify the following as rational or irrational numbers:

$$\sqrt{2}, 1.5, 0.333..., \sqrt{49}, \pi, -\frac{3}{4}$$

2. Write five rational numbers between:

(a) 1 and 2

(b) -1 and 0

3. Represent $\sqrt{3}$ and $\sqrt{5}$ on the number line using geometrical construction. (*Use compass and scale.*)

4. Write the decimal expansions of:

(a) $\frac{1}{8}$

(b) $\frac{22}{7}$

(c) $\frac{1}{3}$

And State whether the decimals are terminating or non-terminating recurring.

5. Create a table showing five irrational numbers and explain how each is identified as irrational.

6. Without actual division, state whether the decimal representation of the following will terminate or not:

(a) $\frac{7}{20}$

(b) $\frac{23}{90}$

(c) $\frac{5}{16}$

(d) $\frac{4}{11}$

7. True or False (with reason):

(a) $\sqrt{2}$ is a rational number.

(b) Every real number is either rational or irrational.

(c) The product of two irrational numbers is always irrational.

8. Express the following as a rational number in $\frac{p}{q}$ form:

(a) 0.666...

(b) 1.272727...

(c) 0.818181...

9. Insert three irrational numbers between $\sqrt{2}$ and $\sqrt{3}$

10. On the number line, mark the positions of:

0, 1, $\sqrt{2}$, $\sqrt{4}$

11. show $\sqrt{9.3}$, $\sqrt{6.7}$ on number line.

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पीएम श्री केंद्रीय विद्यालय गणेशखिंड, पुणे
हिंदी ग्रीष्मकालीन अवकाश गृहकार्य (2025-26)

कक्षा - नौवीं

- किसी भी एक कवि का जीवन परिचय देते हुए उसका साहित्यिक परिचय लिखें ।
- जिस कवि का उल्लेख कर रहे हो उसकी प्रमुख रचनाओं के बारे में लिखें ।
- वर्तमान समय में ग्लोबल वार्मिंग स्थिति पर एक अनुच्छेद लिखें।
- अपने छोटे भाई को जो पढ़ाई के लिए घर से दूर रहता है उसे अपने स्वास्थ्य के बारे में सचेत करते हुए एक पत्र लिखिए ।
- विद्यालय के हिंदी पखवाड़ा कार्यक्रम पर अपने दोस्त के साथ एक संवाद लिखिए।
आपके मुहल्ले में बिजली कटौती की समस्या को दूर करने के लिए बिजली विभाग के अधिकारी को पत्र लिखिए।

नोट -उपर्युक्त सभी कार्य हिंदी उत्तरपुस्तिका में ही लिखें।

एक प्रोजेक्ट फ़ाइल (पोर्टफोलियो) A4 आकार वाले पृष्ठों पर करें ।

HOLIDAY HOMEWORK
SUMMER VACATION 2025-26
CLASS – IX
SOCIAL SCIENCE

1. Map work- Label and locate the following places and paste the three maps in your notebook:
 - Indian states and union territories with their capitals
 - Neighbouring countries of India
 - Oceans/Seas around India
2. Select one disaster and prepare a project on the topic “Disaster Management”. Use the following questions:
 - Causes- Environmental/Geographical/Human
 - What is its impact?
 - History- Examples of where it occurred, casualties, impact
 - How can it be prevented?
 - How have countries across the world worked towards preventing it, and mitigating its impact?

Instructions:

- It should be 4-5 pages long
- Do not use plastic files, just staple or tie the pages
- Name the resources (books, websites, news articles) that you have used on the last page.

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SUMMER VACATION 2025-26
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**KENDRIYA VIDYALAYA GANESHKHIND
HOLIDAY HOMEWORK (SUMMER BREAK) 2024-25**

CLASS IX

SUBJECT : ENGLISH

(Reading)

1. Read the passage given below and answer the questions that follow:

What is discipline? Is it absolute freedom to do what a person wants? Is freedom regardless of consequences? Does it mean corrective action after a problem occurs or wrong is done? Is its imposition? Is it abuse? Does it take away freedom?

The answer is none of the above Discipline does mean that a person takes a belt and beats up kids. That is madness, discipline is loving firmness. It is direction. It is prevention before a problem arises. It is harnessing and channeling energy for great performance. Discipline is not something you do to yourself but you do for those you care about.

Discipline is an act of love. Sometimes you have to be unkind to be kind Not all Medicines are sweet, not all surgeries are painless, but we have to take them. We need to learn from nature. We are all familiar with that big animal, the giraffe. A mama giraffe gives birth to a baby giraffe standing. All of a sudden the baby falls on the ground from the cushion of Mama's womb and sits on the ground. The first thing mama does is to get behind the baby and give him a hard kick. The baby gets up but sits down again. Mama keeps kicking till the baby gets on its feet and starts moving. Why? Because mama knows that the only chance of survival for the baby in the jungle is on its feet. Otherwise, it will be eaten up by wild cats and become dead meat.

Children brought up in a loving, disciplined, environment end up respecting their parents more and become law-abiding citizens. The reverse is just as true. Good parents are not afraid of momentary dislike by children to enforce the subject. Allowing a child to eat a box of chocolate could lead to sickness. At the same time, the discipline of eating one or two pieces a day can be an enjoyable experience for a longer time. Our instinct makes us do whatever we want regardless of the consequences.

Freedom is not procured by a full enjoyment of what is desired but the controlling of the desire.

On the basis of your reading answer the following questions:

i. What according to the writer is not discipline?

- a. Abuse of power**
- b. Giving absolute freedom regardless of consequences**
- c. Taking corrective action after a problem occurs**
- d. All of the above**

ii. How can you describe discipline? iii. What is unique about being disciplined?

- a. You have to be unkind to be kind**
- b. You have to hate others**
- c. You have to be a sweet medicine**
- d. You have to perform a painless surgery**

iv. Why do you think a mama giraffe kicks her baby immediately after birth?

- a. She wants her baby to cry**
- b. She wants her baby to fight to other animals**
- c. She wants her baby to help her**
- d. She wants her baby to stand up and survive**

v. What would happen if the baby giraffe doesn't stand on its feet?

- a. It would die
 - b. It would not be able to walk
 - c. It would fall prey to wild animals
 - d. It would sleep
- vi. What is the role played by parents in creating law-abiding citizens?
- a. They have to super strict and ruthless
 - b. They have to fulfill all their child's needs
 - c. They have to create a loving and disciplined environment
 - d. They have to worry about their child's anger
- vii. Our _____ makes us do whatever we want regardless of the consequences.
- viii. How can one procure freedom in life?
- a. By fully enjoying life
 - b. By controlling one's desires
 - c. By being strict but loving parents
 - d. By teaching others about discipline
- ix. Meaning of the word 'Consequences' in passage is: _____
- x. In Para 3, the antonym of the word 'Survival' is _____

2. Read the passage given below and answer the questions that follow:

Speech by C.V. Raman

I know poverty and misery and I quite appreciate by personal experience what it is to be poor, what it is to have no clothes, what it is to have no books, what it is to struggle through life, what it is to walk through the streets without an umbrella, without conveyance along miles on dusty roads. I have been through it all and I can understand the difficulties that most of you graduates have to face today. I am speaking from a long experience of 60 years. Please do not imagine that all the 60 years are milk and roses. To be able to accomplish something, I want to tell you that you have to go through such experiences. I admit success in life is not always to be intelligent or be strong, and it is to some extent a bit of a gamble, but those who got their minds right and those who know their job sooner or later, will sooner perhaps than later make their way in life. But they should not be disappointed if they do not, they have to face up life and take it as they find it.

What I say is that the great things in life are not really great things in life. What I love is to enjoy the common things of life. I am happy that I am still able to sleep at night provided I have three miles walk in the evening. I am still able to enjoy a good lunch or a good dinner. I am still able to look at the blue sky and like it. I still like to walk in the open fields and like the smell of the Ragi or the Jowar.

We think that happiness consists of going to pictures and seeing thrilling films and technicolor dramas. Not at all, the great things in life are the God-given things which cost nothing. What you need is the desire to appreciate them. If you have your minds and hearts open, you have around your things which give you joy. There is the butterfly jumping about in flourishing colors on all sides. Look at the wonderful thing that God has given for our enjoyment.

We have to love nature and appreciate nature and appreciate her wonderful gifts, of nature's marvelous ingenuity, its resourcefulness, and infinite variety. It is the same thing that has inspired me all my life. On the basis of your understanding of the passage, answer the questions that follow. (1x10=10)

i. Choose the option that lists the set of statements that are NOT TRUE according to the given passage.

- 1. He had lived life as a poor.
- 2. He had access to books only.

3. He had to walk through the streets without an umbrella. 4. He drank milk only as a child

- a) 1, 2
- b) 3, 4
- c) 2, 4
- d) 3, 1

ii. *Life been termed as a gamble* implies:

- a) It disappoints you always.
- b) Life is good to only hardworking people.
- c) Even an intelligent or strong person is unsure of success.
- d) CV Raman has lost money in this gamble.

iii. Choose the best option that gave pleasure to C.V. Raman's eyes-

- | | |
|---------------------------|-------------------|
| a) Butterflies fluttering | b) Ragi and Jowar |
| c) Dinner | d) Dusty Roads |

iv. Choose the best option from the words which DOES NOT corresponds to 'despair'.

- | | | | |
|-------------------|-----------------|---------------|---------------|
| a) disappointment | b) hopelessness | c) optimistic | d) depression |
|-------------------|-----------------|---------------|---------------|

v. Choose the best idiomatic expression which can replace the italic one. "Please do not imagine that all the 60 years are milk and roses".

- | | |
|--------------------------|--------------------|
| a) Raining cats and dogs | b) Bed of roses |
| c) Beat about the bush | d) Get out of hand |

vi. Choose the best option from the words which corresponds to 'endless'.

- | | | | |
|------------|---------------|-------------|---------------|
| a) limited | b) contagious | c) infinite | d)unreachable |
|------------|---------------|-------------|---------------|

vii. What according to C.V Raman consists of happiness? a)

Seeing thrilling films and technicolor dramas

- b) Things that cost money
- c) God-given gifts which cost nothing
- d) A graduate student's life

viii. Choose the theme that is not discussed in the passage.

- a) "You will face many defeats in life, but never let yourself be defeated."
- b) "Look deep into nature, and then you will understand everything better".
- c) "Strength and growth come only through continuous effort and struggle."
- d) "You can't trust anybody with power."

ix. Select the best option from the words which DOES NOT corresponds to 'prosperous'.

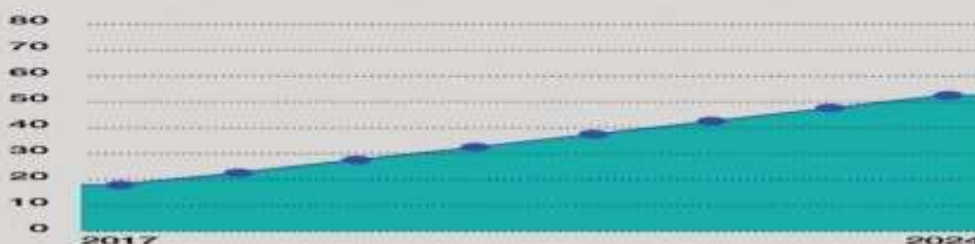
- | | | | |
|---------|-----------|------------|--------------|
| a) rich | b) futile | c) wealthy | d) fortunate |
|---------|-----------|------------|--------------|

x. Choose the reason for loving and appreciating nature.

- | | |
|--------------------|------------------------|
| 1) wonderful gifts | 2) marvelous ingenuity |
|--------------------|------------------------|

Almost one-third of US homes are 'smart homes', this is set to grow to more than half of all homes by 2024

Total % 'smart homes' in the US



Source: Statista March 2018

3) resourcefulness 4) infinite variety

- a) 1
- b) 1, 2
- c) 1, 2, 3
- d) 1, 2, 3, 4

Q.3 Read the passage given below. Technological evolution is a certainty. Cyber-physical systems, Big Data and the Internet of Things (IoT) have been changing the infrastructure of our world. In the 2020s, these phenomena, which are still in their nascency, will rapidly accelerate due to the increasing digitization of key areas such as health, science, transport, communications, and energy. The ubiquity of technology, and its increased ability to connect and communicate, has paved the way for this tipping point. Beneath the surface, we are moving towards an explosion of change. Over 50% of our global population is now online, and the other half is following fast. To be precise, around 726 million people joined the web in the last three years. These new users will change the shape of the internet. Many of them will be lower income. They are choosing smartphones over laptops and tablets and are more likely to use voice commands.

Geodata and the IoT will create new markets and supply chains. The automation of manufacturing, services, and mobility has already begun. Artificial Intelligence (AI) will reach what Gartner terms the 'Plateau of Productivity, in which the technology becomes both mainstream and viable. McKinsey estimates that 70% of companies may adopt at least one AI technology by 2030. It is unlikely they will all use it well, but those that do could manage to take us to a place where man and machine are indistinguishable.

Bioscience has the potential to be transformative in the 2020s. Gene editing (CRISPR) technology will likely soon be able to edit genomes to allow animal organs to be accepted into human bodies – transforming, and perhaps saving, the lives of people currently waiting for organ transplants. Similar technology can also be used to combat inherited diseases and even cancer. Elsewhere, gene therapy experiments are using the body's immune system to fight cancer through re-engineering our cells.

Technology has inarguably improved science, health, communications, and transport. However, technology has not necessarily corresponded to increased economic productivity. Indeed, many of the most technologically advanced countries have seen productivity stagnate and stall, as discussed in growing inequality and opportunity.

In the 2020s many questions around technology will be resolved. The scaffolding is in place. This will be the decade in which AI, geodata, the IoT, bioscience, and quantum computing are allowed to change our world. Whether this change will be surface-level or truly transformative remains to be seen.

Based on your understanding of the passage attempt ANY TEN questions (1x10=10)

- i. In the line "The ubiquity of technology, and its", the word "ubiquity" DOES NOT refer to a.
 - Ever-present
 - b. Omnipresent
 - c. Pervasive
 - d. Usage

- ii. According to Mckinsey,
 - a. 70% of companies will employ more labor force by the year 2030
 - b. Nearly 70% of the companies will adopt the use of one AI by the end of this decade
 - c. Nearly 70% of all companies will stop using AI by the end of 2030
 - d. 70% of all companies will depend on people who can use computers by the end of 2030

- iii. One of the important predictions in the passage is that we are going to reach, the 'Plateau of Productivity' with respect to digitization. Which option most reflects the meaning?

- a. There will be a widespread market use of AI even if it is not viable
- b. There will be no more resources left to develop AI
- c. The production and use of AI will be extensive and practicable
- d. The use of AI will stop as it will become more expensive

iv. According to the report, the number of 52% of US house-holds become smart from 18% in, a.
8 years

- b. 6 years
- c. 7 years
- d. 9 years

v. According to the report, how many homes are smart in the year 2020? a.
33%

- b. 40%
- c. 25%
- d. 30%

vi. According to the report, what will generate a new market chain and supply? a.

Artificial Intelligence

- b. Artificial Intelligence and the Internet
- c. Geo-data and Internet of Things
- d. Access to meta-data

vii. Based on your understanding of the passage, choose the option that best lists the inherent benefits of biosciences.

1. Will revolutionize the field of cancer treatment
2. Will revolutionize the use of computers and phones
3. Will revolutionize the industry and its development
4. Will revolutionize the development of new phones
5. Will allow for genome transformation of animals
6. Will help patients who need organ transplants

- a. 1,2,3
 - b. 1,5,6
 - c. 2,3,4
 - d. 3,4,5
- viii. What will gene therapy accomplish?

- a. Fight cancer by making changes in our cells
- b. Improve the body's immune system
- c. Fight cancer by making new cells in the body
- d. Fight cancer by creating a new immune system
- e.

ix. Choose the option which is not true.

- a. Technology advancement will improve economic productivity
- b. Technology advancement may not improve economic productivity
- c. Technology advancement will improve medical facilities

d. Technology advancement will change the way we use communication

x. According to the report what is the most appropriate conclusion:

- a. There will be a lot of changes in technology development
- b. There will be technological development but its impact on society needs to be seen
- c. There will be technological development but no significant change in society
- d. Technological development may lead to social inequality

xi The years between 2020 and 2030 will see a next-level technological advancement as per the report. What reason has been cited for the same:

- e. Large-scale investment by the private sector in technology
- f. Technology development has been the top priority of the governments
- g. A lot of advancement has taken place in the field of internet
- h. Increased ability of technology to connect and communicate

xii. The most popular digital device among the masses as per the report is

- i. Tablets Laptops Smartphones Personal computer

(Grammar & Writing)

- 4. You love your father very much, for he is an ideal father. Describe him in your own words in 100-120 words. (Introduction-Stature-Nature-other Characteristics-Conclusion)
- 5. During summer break you visited Nal Sarovar, where migratory birds come in large number. You also talked to Range Forest Officer who had come with his team, to conduct survey on increase in number of birds, their specialities etc. write a page of diary in 100 to 120 words.
- 6. Read the following advertisement for products using solar energy. Write a letter in about 150-200 words to the editor of an English daily, making a plea to the common people to switch over to solar energy to conserve electricity and limit electricity bills.

SOLAR POWER SYSTEMS FOR A GREENER INDIA

- Excellent offers
- Solar Cookers
- Solar Lanterns
- Solar Heating / Cooking Systems
- Solar Water Heater ^

Raj Solar Sales and Service 45-Panchkwan Road New Delhi

7. GRAMMAR

A) Fill in the blank by using the correct form of the word in the bracket, for the given portion of a letter:

Dear Sir

This is with reference to committee’s letter of recommendation that _____ (highlight) the nominations for ‘Safe Residential Area’ award for this current year.

B) Read the given sentence from a recipe review article. Identify the error and supply the correction in the sentence.

This delightful recipe must keep your hunger pangs at bay with its balanced spices and oriental flavour. Use the given format for your response.

error	correction
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C) Abhilash and Neha had a conversation about the inauguration of Neha’s Dance Academy. Report Abhilash’s question.

Is your best friend helping you in this venture?

D) Read the dialogue between Shabnam and her mentor, Sara, regarding her summer internship programme.

Sara: Why did you choose to participate in this internship programme?

Shabnam: Ah! I am convinced this programme has the potential to enhance my abilities.

Select the correct option to complete the reporting of the above dialogue.

Sara asked Shabnam _____ in that internship programme. Shabnam sighed and exclaimed that she was convinced that programme had the potential to enhance her abilities.

- A. why to choose to participate
- B. to choose participation
- C. why he had chosen to participate
- D. with her choice in participating
- E) Fill the blank by choosing the correct option, to complete the concluding line of an issued circular by an Organisation, to its Managers.

A copy of the plan is enclosed and _____ (that/ then/ this) may be communicated to all Team Leaders for compliance.

F) Identify the error and supply correction for the given sentence from a commercial company’s current marketing strategy.

The company aimed at increasing authority in areas frequently visited by the clients.

Use the given format for your response.

error	correction
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G) Complete the given narrative, by filling the blank with the correct option.

The experience of nursing an injured bird left me _____ grateful for knowing the importance of being kind and compassionate to all creatures.

- A. feeling
- B. having felt
- C. felt
- D. feels

H) Report the dialogue between a vendor and his customer, by completing the sentence:

Vendor: It is nice to see you, Sir!

Customer: Yes, indeed! Unlike last month, I have been away for quite some time this month.

The vendor greeted his customer respectfully and mentioned that he was pleased to see him. The customer answered in the affirmative and explained that _____

I) Fill the blank by choosing the correct option to complete the live feed on a school news channel.

Congratulations Change Makers!

The regional competition awards have been announced and our school music club _____ the first prize.

8. The following passage has not been edited. There is an error in each line against which a blank is given. Write the incorrect word and the correction in your answer sheet against the correct blank number.

		Error	Correction
Anne is in need of the true friend with	e.g.	the	a
who she can share her joys and	(a)
sorrows. She has loving parents and about			
thirty people whom she can call friend.	(b)
When she is with his friends she	(c)
could talk about matters of everyday	(d)
but cannot share her feelings.			

Literature

9. Subject enrichment activity

Read a story book or a novel as per your interest and write a Book Review following the given instructions: (ART INTEGRATED)

- Draw / print the cover page.
- Write about the book e.g. no. of pages ,publication, edition ect □ Write about the writer in short.
- Summary of the story.
- Short description of characters of the story.(you can draw the pictures of the characters as per your imagination)
- Write about the character/s you like most and why?
- Write about the character/s you dislike most and why?
- Describe the most interested part of the story.

Summer vacation holiday homework

Class IX Science

Chapter-1 Matter in our surrounding

Many modern tanks for water and liquid fuels are made spherical in nature what could be the reason behind this?

- a) It is easier to build spherical tanks of other shapes
- b) for a given surface area, spherical tanks enclosed maximum value
- c) It is easier to transport spherical tanks when repair etc are required
- d) liquid get preserved better when they are stored in spherical tanks

2 Which phase change at standard temperature and pressure represents sublimation?

- a) $\text{CO(s)} \rightarrow \text{CO(g)}$
- b) $\text{H(l)} \rightarrow \text{H(g)}$
- c) $\text{CO(l)} \rightarrow \text{CO(g)}$
- D. $\text{H(s)} \rightarrow \text{H(l)}$

3 People sometimes add salt to the water in Which eggs are to be boiled. What is the MAIN reason for this?

- a) Adding salt to the Water before the Egg is cooked makes the egg tastier.
- b) Adding salt to the water increases its Boiling point and cooks the egg better
- c) Adding salt to the water Reduces the water Temperature cooking the egg faster.
- d) Adding salt to the Water kills micro Organisms making The egg safer to eat.

4 Rama suspects that the LPG cylinder is Leaking, and immediately turns the Cylinder valve to the OFF position. What Should she do next?

- a) Switch on all lights.
- b) Switch off all lights.
- c) Open all the windows
- d) Close all the Windows.

5 It is easier to break a piece of chalk than an iron nail. Which characteristic property of a matter is it mentioning about.

- a. Particles are continuously moving
- b. Particles of matter attract each other.
- C. Inter mixing of particles of different types
- d. Latent heat of vaporization

6 Units of temperature

- a. Bar and pascal
- b. Milligram and kilogram
- c. Degree Celsius and kelvin
- d. Gram per centimetre cube and kilogram per metre cube

Directions: In each of the following questions, a statement of Assertion is given, and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:

- (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

7 Assertion : Disinfectants are rubbed on our hands before taking injections and it feels cold.

Reason : Particles of disinfectant gain energy from the surroundings and evaporate and leave our hand cold.

8 Assertion: Steam is more dangerous than boiled water

Reason: Solid particles have high melting point than water.

9 Read the following situations and categorise them into diffusion / osmosis

- a. Smell of biriyani while passing through a restaurant.
- b. Spread of corona virus
- c. Swelling of Chana when soaked in water

d. Earth worm dying when salt is sprinkled over it.

10 Camphor is a substance that we use for lighting lamp.

a. List the state of camphor before and after burning.

b. Elaborate the process

11 Reemu was making steam cake. Suddenly she felt intense heat from the puff of steam gushing out of the vessel. She wondered whether the temperature of the steam was higher than that of the water boiling in the kettle. Comment.

12 a. Boiling point of Alcohol is 78 degree celsius. Convert it into Kelvin scale.

b. Also mention the physical state of water at 100 degree Celsius.

13 Dried raisins were put in water, and it was observed after some time that it swells. Mention the phenomenon and Explain.

14 The temperature of a substance remain constant during its melting point or boiling point. Explain the reason behind it.

15 a. Rita made a lemon juice and added some ice cubes into it. She observed that ice floated in the juice. Give the reason for this.

b. Plants use carbon dioxide for photosynthesis. Mention its natural state. How is it different from dry ice.?

16 Evaporation causes natural cooling. The basic concept is that in order for matter to change state, it must either receive or lose energy. When molecules of matter changes from liquid to gas, they require energy to overcome their potential energy through kinetic energy. As a result, the liquid absorbs energy from its surroundings.

a. Clothes dry faster in a winter day than on a rainy day. Why?

b. It is easy to drink a hot tea from a saucer faster than from a cup. Why?

c. Evaporation requires energy. Explain.

17 In an experimental activity, crushed ice was taken in a beaker. A thermometer is fitted in such a way that its bulb was thoroughly surrounded by ice. The beaker is now slowly heated and the temperature was regularly noted. The temperature rises gradually as the heating is continued and becomes constant when the ice starts changing into liquid.

- a) Where does the heat energy go when the temperature does not rise?
- b) Name the process explained here.
- c) Differentiate melting and boiling point.

1. Chapter 5 Fundamental unit of life

1 Chromosomes present in the nucleus are made up of

- a. DNA
- b. protein
- c. both the above option
- d. none of these

2 Which of the following cell organelles in vertebrates plays a crucial role in detoxifying many poisons and drugs.

- a. Endoplasmic Reticulum
- b. Golgi Bodies
- c. Lysosomes
- d. Mitochondria

3 Chlorophyll is present in

- a. lysosomes
- b. mitochondria
- c. chloroplast
- d. leucoplast

4 Lysosomes are also called

- a. suicidal bag
- b. digestive bag
- c. demolition squad
- d. All of the above

5 Name the cell organelle which is called as the powerhouse of the cell

- a. lysosomes

- b. mitochondria
- c. chloroplast
- d. leucoplast

6 Name the cell organelle which is called as heredity vehicles

- a. nucleus
- b. mitochondria
- c. chloroplast
- d. leucoplast

7 Directions: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but reason (R) is true.

Assertion A:- Mitochondria is called the powerhouse of the cell.

Reason R :- Mitochondria are semi -autonomous cell organelles.

8 Assertion A:- RBC burst when placed in hypotonic solution.

Reason R:_ RBCs burst due to exosmosis.

9 Endocytosis found in animals only? Analyse the reason?

10 The cell organelle which controls most of the activities of the cell? justify.

11 Peroxisomes mostly found in kidney and liver cells. Why?.

12 Do you agree that Golgi bodies are found in large numbers in the cells which secrete digestive enzymes? If yes, explain why?.

13 From your surroundings find out the different plant parts in which chromoplast, chloroplast and leucoplast are present ?.

14 With respect to the function ,list three differences between a plasma membrane and cell wall.

15 a)Reetu has got cancer.Where will you find more number of ribosomes-in her body,In her cancer cells or in fat cells?.

b)If you are cooking vegetable curry today, after adding salt into the vegetables,you see that it released water . Why?

.
16 Take a small piece of an onion bulb. With the help of a pair of forceps we can peel off the skin called epidermis from the concave side that is inner layer of the onion. This layer can be put immediately in a watch glass containing water. This

will prevent the peel from getting folded or getting dry. Put a drop of water on it and transfer a small piece of peel from the watch glass to the slide. Make sure that the field is perfectly flat on the slide. Add a Drop of safranin solution from this piece followed by a cover slip. Take care of air bubbles while putting the cover sleeve with the help of a mounting needle. Observe the slide under the microscope.

Answer the following questions

i. Name the cell organelles which are observed.

- a. Cell wall, nucleus, cytoplasm
- b. Plasma membrane, nucleus, cytoplasm
- c. Cell wall, nucleus, protoplasm
- d. Plasma membrane, nucleus, cell membrane

ii. Why do we put the peel of onion immediately into watch glass containing

2. Prepare a working model for science exhibition on health and hygiene or environmental factors.