RAMAKRISHNA SENIOR SECONDARY SCHOOL
HOLIDAY'S HOME WORK
Class - IX (2025-26)

ENGLISH

Q1 Write a paragraph describing the following prominent personalities in about 150 words on I. ROLL No 1-24Evelyn Glennie (Refer lesson 2 in Beehive) II. ROLL No. 25-48 Bismillah Khan (Refer lesson 2 in Beehive)

2. **Make a Gratitude Card for your parents, showing appreciation for their love and care, inspired by The Little Girl's theme of hidden affection behind authority**

3. Make a Road Map of Life in your English notebook.(Refer to the poem The Road not Taken)

Instructions:
Design a "Life Road Map" where you:

- **Show 3–4 major choices you expect to face in life (e.g., career, city to live in, friendships, etc.)**
- **For each, show both paths (Road A and Road B), and what might lie at the end of each.**

4..Descriptive Writing - Give an account of your arrival at a very strange hotel in the form of Diary Entry. Describe the building, the surroundings, the staff and the other guests.(In 100-120 words)

5. Read the novel Gulliver's Travel by Jonathan Swift

Read the novel carefully during the summer vacation. A group discussion will be conducted after the break as part of your internal assessment. You are expected to express your views, share insights, and reflect on Gulliver's Journey journey based on your reading.

6.Do the questions and answers of Ch A Truly beautiful mind in the notebook.

हिन्दी -

1.स्पर्श पाठ्यपुस्तक के किसी एक कवि **(**रामधारी सिंह दिनकर अथवा हरिवंशराय बच्चन**)** की संक्षिप्त जीवनी लिखते हुए उनकी कोई एक कविता सुंदर लिखाई में लिखिए व कविता कंठस्थ कीजिए **।**
2.अनुशासन व व्यायाम की महत्वता बताते हुए छोटे भाई को पत्र लिखिए **।**
3.अपने जीवन की किसी अविस्मरणीय घटना का वर्णन कहानी लेखन के रूप में लिखिए **।(**शब्द सीमा **100-120)**
4.पहलगाँव में हुए आतंकी हमले पर दो मित्रों की बातचीत को संवाद-शैली में लिखिए **।(**शब्द सीमा **50-80)**
5.अप्रैल व मई माह के संपूर्ण पाठ्यक्रम को याद कीजिए **।**
निर्देश-
(उपरोक्त संपूर्ण गृहकार्य विद्यार्थी अपनी हिंदी पुस्तिका में सुंदर लिखाई में कीजिए**)**

Mathematics-

#Do the following activities in Mathematics Activity Notebook:

1)To verify the algebraic identity $(a+b+c)^2 = a^2+b^2+c^2+2ab+2bc+2ca$.
2)To obtain the mirror image of a given geometrical figure with respect to the x-axis and the y-axis.

#Do the following questions from 'Together with Mathematics' in CW/ HW Register:

1) Ch- 1 (Number System)
   Assess yourself, QNo. 1 to 15, Page no 35, 36
2) Ch- 2 (Polynomials)
   Practice Questions on page no - 54 (QNo. 1 to 14)

3) Ch- 10 (Heron's Formula)
More Practice Exercise (QNo. 1 to 14) on page 225,226.

#V Imp. Do practice questions from Question Bank that will be uploaded in Google classroom as it will help you to excel in the subject.(Not to be done in register)
Prepare Mathematics model as alloted in class.

Science -
Q1.Write the following practicals in your SCIENCE PRACTICAL FILE.
Experiment No. 1, 2, 5 and 6 .
(Refer science Lab Manual Book)

Q2.Make the model allotted in the class and bring it to school when asked.

Q3.Grow any one sapling(mango, Neem,peepal etc) , nurture it and bring it for plantation drive at school when asked.
Q.4:Do given assignment on white A4 sized ruled sheet **and keep them in self design separate science folder.**
NOTE :
Mark the answers of MCQ of each chapter in assignment only . Do rest of the questions on A4 sized ruled sheet chapterwise.

HHW Assignment

CH 1 :MATTER IN OUR SURROUNDING
SECTION -A MCQ (1 Marker)
1. Which of the following describes the liquid phase?
(a) It has a definite shape and a definite volume.
(b) It has a definite shape but not definite volume.
(c) It has a definite volume but not a definite shape.
(d) It has neither a definite shape nor a definite volume.

2.Which of the following has highest kinetic energy?
(a) Particles of ice at 0C (b) Particles of water at 0C
(c) Particles of water at 100C (d) Particles of steam at 100C

3. When liquid starts boiling, further heat energy which is supplied
(a) is lost to the surroundings as much
(b) increases the temperature of the liquid
(c) increases the kinetic energy of the particles in the liquid
(d) is absorbed as latent heat of vaporisation by the liquid.

6. Which of the following statements does not go with the liquid state?
(a) Particles are loosely packed in the liquid state.
(b) Fluidity is maximum in the liquid state.
(c) Liquids cannot be compressed much.
(d) Liquids take up the shape of any container in which they are placed.

7.Which of the following indicates the increasing of kinetic energy of particles in the three states of matter?
(a) Solid > Liquid > Gas

(b) Liquid < Solid < Gas
(c) Liquid > Gas > Solid
(d) Gas > Liquid > Solid

8.When heat is constantly supplied by a burner to boiling water, then the temperature of the water during vaporisation:
(a) Rises very slowly
(b) Rises rapidly until steam is produced
(c) First rises and then becomes constant
(d) Does not rise , it remains constant

9. Which of the following conditions is most favourable for liquefying gas ?
(a) High pressure, low temperature
(b) Low pressure, low temperature
(c) Low pressure, high temperature
(d) High pressure, high temperature

10.Assertion : A gas can be easily compressed by applying pressure.
Reason : the inter-particle spaces in the gaseous state are very small.

11.Assertion : Liquids diffuse easily as compared to gases.
Reason : Intermolecular forces are greater in gas.

SECTION -B (2 Marker)

12.a)Arrange the following substances in increasing order of force of attraction between particles: water, sugar and oxygen .
b)Suggest a method to liquify atmospheric gasses
13.Can matter change its state?If yes,state the condition under which it changes.
14..Convert the following temperatures in kelvin scale
a) -25 ^{0}C b)29 ^{0}C
15.Convert the following temperature in Celcius scale
a) 25 K. b)379 K
16.We can smell an incense stick lightened at the other end of the room. Name three properties of matter responsible for this.

SECTION -C (3 Marker)

17.a)Write the full form of LPG and C.N.G
b)In Spite of being solid a sponge is compressible. Comment.
18.How will you demonstrate that air contains water vapour .Explain

SECTION -D (5marker)
19.Give reasons:
a)Naphthalene balls disappear with time without leaving any residue.
b)We get the smell of perfume sitting several meters away.
c)Ice at 273K is more effective in cooling than water at the same temperature.
d)We see water droplets on the outer surface of a glass containing ice cold water.
e)Our palms feel cold when we put some acetone ,patrol or perfume on it.
SECTION -E Case Study (4 Marker)
20.Case Study

During the study of change of States of matter We have seen that a liquid can be converted into gaseous state either by heating or by decreasing the pressure. sometimes this conversion can take place on its own. in the case of liquid A small fraction of particles at the surface ,Having higher kinetic energy is able to bake away from the force of attraction of other particles and get converted into vapours. such phenomenon is called evaporation. It is a surface phenomenon while boiling is a bulk phenomenon. evaporation depends on the surface area, temperature and humidity.

a.What is evaporation?

b.Rate of evaporation decreases when humidity is increased why

c..Why Evaporation causes cooling

OR

C.Why should we wear cotton clothes in summer?

CH -5 :FUNDAMENTAL UNIT OF LIFE

SECTION -A MCQ (1 Marker)

1. A cell will swell up if
   (a) The concentration of water molecules in the cell is higher than the concentration of water molecules in surrounding medium
   (b) The concentration of water molecules in surrounding medium is higher than water molecules concentration in the cell
   (c) The concentration of water molecules is same in the cell and in the surrounding medium
   (d) Concentration of water molecules does not matter

2. Plasmolysis in a plant cell is defined as
   (a) break down (lysis) of plasma membrane in hypotonic medium
   (b) shrinkage of cytoplasm in hypertonic medium
   (c) shrinkage of nucleoplasm
   (d) none of them

3. Which out of the following is not a function of vacuole?
   (a) Storage
   (b) Providing turgidity and rigidity to the cell
   (c) Waste excretion
   (d) Locomotion
4. Amoeba acquires its food through a process, termed
   (a) exocytosis
   (b) endocytosis
   (c) plasmolysis
   (d) exocytosis and endocytosis both
5. Cell theory was given by
   (a) Schleiden and Schwann
   (b) Virchow
   (c) Hooke
   (d) Haeckel

6.Assertion : Plasma membrane is selectively permeable.
Reason: Plasma membrane allows some molecules to pass through it more easily than others.

7.Assertion : Mitochondria are called ‘powerhouses’ of the cell.
Reason : Mitochondria produce cellular energy in the form of ATP.

SECTION -B (2 Marker)

8.Write any two differences between RER AND SER

9.What will happen if you put the cell in A) isotonic solution B) hypotonic solution C) hypertonic solution

SECTION -C (3 Marker)

10.Explain different types of plastids with their function.

11.a) Why is the cell called a structural and functional unit of life?
b)Why is plasma membrane called a selectively permeable membrane?
c)If the organization of a cell is destroyed due to some physical or chemical influence, what will happen?

SECTION -D (5 Marker)

12:Write one important function of the following:

a)Nucleus b) Golgi apparatus c) Ribosome d) Chromosomes e)Vacuole

13.a)What is cell division?Explain how mitosis is different from meiosis .(any three point)

b)Also draw a diagram which shows mitosis and meiosis.

CH -7 :MOTION
SECTION -A MCQ (1 Marker)

1. The numerical ratio of displacement to the distance for a moving object is

   (a) always less than 1 (b) always equal to 1
   (c) always more than 1 (d) equal or less than 1

2. From the given v – t graph (Fig. 8.1), it can be inferred that the object is

   (a) in uniform motion (b) at rest
   (c) in non-uniform motion (d) moving with uniform acceleration

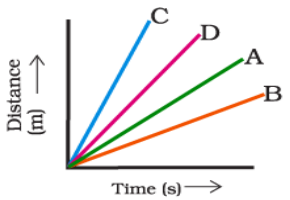
3. Suppose a boy is enjoying a ride on a circular motion which is moving at a constant speed of 10 m/s. It implies that the boy is

   (a) at rest (b) moving with no acceleration
   (c) in accelerated motion
   (d) moving with uniform velocity.

4. Area under a v – t graph represents a physical quantity which has the unit

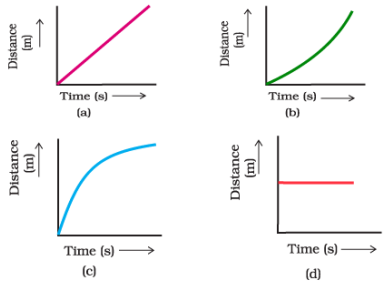
   (a) m^2 (b) m (c) m^3 (d) $m\ s^{-1}$

5. Four cars, A, B, C and D, are moving on a levelled road. Their distance versus time graphs are shown in Figure below. Choose the correct statement



(a) Car A is faster than car D. (b) Car B is the slowest.
(c) Car D is faster than car C. (d) Car C is the slowest.

7 . Which of the following figures (Fig. 8.3) represents the uniform motion of a moving object correctly?



8 Assertion: Speed of an object can be negative
Reason:Speed is defined as the distance covered by an object in unit time

9.Assertion: Position time graph of an object at rest is a straight line parallel to the time axis
Reason: For a stationary object position does not change with time

10.Assertion: An object can have constant speed but variable velocity
Reason: In uniform circular motion speed remains and change

11.Assertion: displacement of an object may be zero when distance travelled by it is not zero
Reason: The displacement is the shortest distance between initial and final position of an object

SECTION -A (2 Marker)

12.A body starts from rest and moves with a uniform acceleration of 2 m /s^2 - until it travels a distance of 625 m. Find its velocity.

13.If on a round trip around the circular track having radius 10 m you completed 2 rounds. Calculate your displacement and distance.

14..A bus decreases its speed from 80 km per hour in 5 seconds. Find the acceleration of the bus.

SECTION -C (3 Marker)

15.When will you say a body is in a) uniform acceleration b) non uniform acceleration. Also draw relevant graph for it

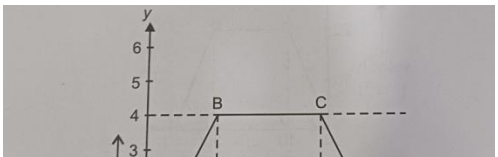
SECTION -D (5 Marker)

17.a)A train accelerates from 36 km/h to 54 km/h in 10 sec.(i) Acceleration (ii) The distance travelled by car.
b)Under what conditionsIs the magnitude of average velocity of an object equal to its average speed?
c)What can you say about the motion of an object if its speed time graph is a straight line parallel to the time axis?

SECTION -E Case Study (4 Marker)

19. The velocity time graph of a body is shown alongside

a)State the kind of motion represented by AB and BC



and CD.

b) find the velocity of a body at 10 seconds and 14 seconds.

c) What is the negative acceleration of the body?

d) find the distance traveled between 10th and 4th second.

SOCIAL SCIENCE-

History

- Read Chapter 2-Socialism in Europe and the Russian Revolution.
- Make a cover page and do the below mentioned questions in the Social Science Register.

2025-2026 Edition.

Pg-41: Q1,2,3,4
Pg-42: Q6,7,8,9
Pg-43: Q1
Pg-44: Q2,3,4,5

Q. Evolution and the significance of the Political Symbols associated with The French Revolution. Explain the need for symbols during The French Revolution along with pictures and Impact of these symbols on common people. (To be done in Register)

Economics

- Read Chapter 3- Poverty as a Challenge
- Make a cover page and do the below mentioned questions in the Social Science Register.

2025-2026 Edition.

Pg-360- Q2
Pg-361-Q4
Pg-367: Q1,3,4,6
Pg-368: Q10,12
Pg-369: Q1,2,3,4,5

Q.Make a mind map on chapter- Poverty as a Challenge (include all the relevant aspects covered in the chapter like meaning, poverty line, methods and measures taken by government etc). Make it on an A4 size sheet and paste it in the register.

Political Science

- Read Chapter 2- Constitutional Design
- Make a cover page and do the below mentioned questions in the Social Science Register.

2025-2026 Edition

Pg-254: Q1,2,3
Pg-255: Q6,7,8,1,2
Pg-256: Q3,4,5,6
Pg-257: Q7,8

Q. Under the leadership of Nelson Mandela, the struggle against Apartheid reached its climax. Write about Nelson Mandela by highlighting his achievements. (To be done in register)

Geography

Q1. Mark the following on the political map of India, use separate maps for each topic.
a) Rivers- Ganga, Satluj, Krishna, Narmada, Tapi, Brahmaputra, Indus, Mahanadi.
b) Lakes- Chilika, Sambhar, Wular
c) Forests- Tropical Evergreen, tropical deciduous, montane forest, mangrove forests, thorn forest
d) Wildlife Reserves and national parks- Sariska, Periyar, Dachigam, Ranthambore, Gir, Kaziranga, Corbett, Dudhwa

Q2. ”Rivers play an important role in the economy”.

Mention the importance of rivers and write down the causes of river pollution in your register. Support your answer with suitable pictures.

Project Work:

Make a project on Disaster Management taking any one of the following topic:

1-Flood, 2- Drought,

3- Earthquake, 4- Industrial Accidents

The project file should consist of the following:

Cover page

Index

Introduction

Causes of disasters

Precautionary steps to be taken

Rescue and relief

Most affected areas

I.T. -

Q1. Type a paragraph on the topic "Sustainable Development Goals" and write all the steps to do

the following:

a. Heading: Make the heading bold and set the font size to 24.

b. Paragraph: Align the text left and then apply the first-line indent.

c. Images: Insert relevant images in the document.

Q2. Create a presentation on "Save Water" and save it with the name My presentation and write all the steps to do the following:

a. Insert a slide, add objects to it and add animation effect for example fly in.

b. Add four more slides to your presentation and apply slide transitions to it.

c. View the presentation in slide show view.

d. Insert the pictures on each slide also.

ART AND CRAFT-

CRAFT WORK

1. Make a Madhubani Design on a handmade paper bag.
2. Make any Freehand craft and decorate it properly.

ART WORK

1. Make any five Drawings on your sketchbook.

Work Experience -

Visit a nearby Orphanage home, arrange few activities there with the children, click pictures and paste them in your project file sharing the details and experience of your Visit.