

**CONVENT OF JESUS AND MARY  
HOLIDAY HOME WORK (2024-25)  
CLASS IX**

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**ENGLISH**

❖ **SUGGESTED READING AND FOLLOW UP ACTIVITY:**

1. Jane Eyre by Charlotte Bronte
2. Wings of Fire by APJ Abdul Kalam
3. The Catcher in the Rye by J.D Salinger
4. Looking for Alaska by John Green
5. Uncle Tom's Cabin by Harriet Beecher Stowe
6. City of Djinn by William Dalrymple
7. Jonathan Livingston Seagull by Richard Bach
8. Ikigai for Teens: Finding Your Reason for Being by Hector Garcia and Francesc Miralles
9. Book Thief by Markus Zusak
10. Murder on the Orient Express by Agatha Christie (*Book of the Month for June*)
  - **On an A4 size sheet, write an alternate ending of any one of the stories.**

***Links to Practice forms are given below:***

The following forms will open on the start date at 8 a.m. and will close at 8 p.m. on the closing date:

**Form 1: 23rd May to 29th May**

[https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW\\_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUN0JNQTZJWjdDQkc5WVRDVVg2Uk1BWIQyVC4u](https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUN0JNQTZJWjdDQkc5WVRDVVg2Uk1BWIQyVC4u)

**Form 2: 30<sup>th</sup> May to 5<sup>th</sup> June**

[https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW\\_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUQkpaNVdYWII4WVFOUVZCNDhaNDRDJDOSi4u](https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUQkpaNVdYWII4WVFOUVZCNDhaNDRDJDOSi4u)

**Form 3: 6th June to 12th June**

[https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW\\_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUOU4yTE5HOTVIWjFMSE5VR0JWMIhNVU84MS4u](https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUOU4yTE5HOTVIWjFMSE5VR0JWMIhNVU84MS4u)

**Form 4: 11th June to 19th June**

[https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW\\_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUREo4OUk3UUE1MVgwTkVMTUIKVTZGRVU0VS4u](https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUREo4OUk3UUE1MVgwTkVMTUIKVTZGRVU0VS4u)

**Form 5: 20th June to 26th June**

[https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW\\_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUQTZGTTdUTURXUk8wUFNRQUw5R04yNEc1NS4u](https://forms.office.com/Pages/ResponsePage.aspx?id=-eVW_P5zCEyKtMtHGbhxIAp6TfmRSINLusrn1FK7thNUQTZGTTdUTURXUk8wUFNRQUw5R04yNEc1NS4u)

## HINDI

1. विभिन्न क्षेत्रों में उल्लेखनीय योगदान देने वाली किन्हीं पाँच प्रसिद्ध भारतीय महिलाओं के जीवन व उपलब्धियों का वर्णन करते हुए एक सचित्र परियोजना A4 आकार के पन्नों पर तैयार कीजिए।
2. लेखक 'वीरेन डंगवाल' की पुस्तक की कोई दो कहानियाँ पढ़िए तथा प्रमुख पात्र व उसका सचित्र सार अपने शब्दों में साहित्य की पुस्तिका में लिखिए।
3. कक्षा में करवाए गए समस्त कार्य को दोहराएँ।

## GERMAN

1. Do research on school system in Germany and make a presentation in German to be conducted in class after vacation.
2. Design a party invitation for your birthday in German.
3. Complete lesson 1 and 2 in Get ready

## SPANISH

- For revision of the grammar topics done till now Practice worksheets will be posted.
- Prepare a PPT on one of the provinces of Spain

## MATHEMATICS

1. Research Work :  
Research about the Application of Mathematics in your daily life to prepare a working model for ANVESHAN.
2. On A4 Sheet attempt the following:
  - M L Aggarwal ( New book ) Number Systems –  
Page 41 -44
  - Chapter Test (Pg -49 ) Qno. 1-14
  - Chapter 2 – Polynomial  
Pg 97 to 99  
Q1. (i to xii)  
Q2. ( i to xii)  
Q3 to Q20.

## SCIENCE

### PHYSICS

- On A-3 sheet use ART work to show the relationship between physics and sports.
- Write the physics principles used in the chosen sport.
- Revise the chapter 8 Motion
- Write and learn the theoretical concepts of the CHAPTER Motion
- Do all the given numericals in a separate small numerical notebook

**Q1.)** An insect moves along a circular path of radius 10cm with a constant speed. If it takes 1 minute to move from a point on the path to diametrically opposite point, Find

- a) The distance covered. b) Displacement c)Speed

**Q2.)** A car is moving on a straight road with uniform acceleration. The following table gives the speed of the car at various instant of time

Time (second)	0	10	20	30	40	50
Speed (m/s)	5	10	15	20	25	30

Draw the speed time graph using a convenient scale.

**Determine.**

- Acceleration of the car
- Distance covered by the car in 50 seconds.

**Q3.)** A car acquires a velocity of 72km/ h in 10 seconds starting from rest. Find

- The Acceleration
- Distance travelled

**Q4.)** The brakes applied to a car produces an Acceleration of  $6\text{m/s}^2$  in the opposite direction to the motion. If the car takes 2 seconds to stop after applying brakes, Calculate the distance it travels during this time.

**Q5.)** A car travels 30 km at a uniform speed of 40km/hr and the next 30 km at a uniform speed of 20km/ hr. Find its Average speed.

**Q6.)** The ODOMETER of a car reads 2000km at the start of a trip and 2400 km at the end of a trip. If the trip took 8 hr, Calculate the average speed of the car in km/ hr and m/s ?

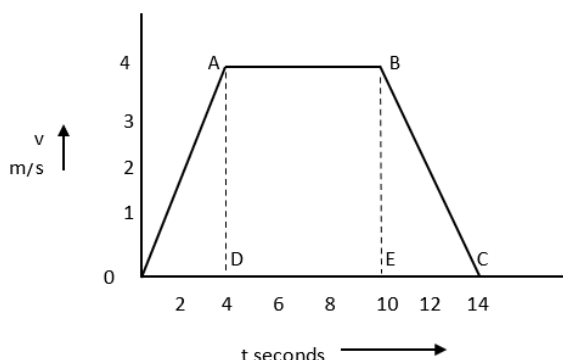
**Q7.)** An object undergoes an Acceleration of  $8\text{m/s}^2$  starting from rest. Find the distance traveled in Second.

**Q8.)** A car accelerates uniformly from 18km/ hr to 36km/hr in 5 seconds. Calculate i) Acceleration ii) The distance covered by the car in that time?

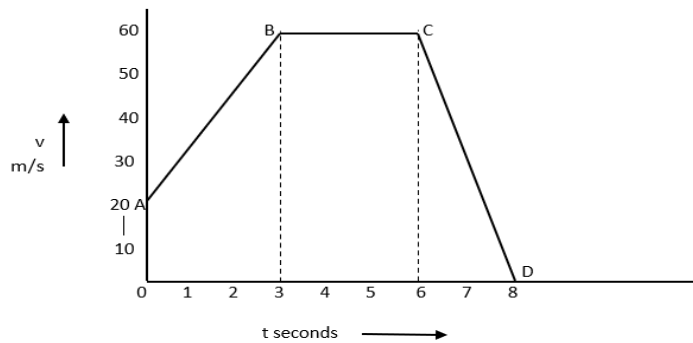
**Q9.)** A body is thrown vertically upwards with a velocity of 98m/ s .If the Acceleration is  $9.8\text{m/s}^2$ . When will it reach its highest point? What will be its maximum height?

**Q10.)** Velocity time graph for motion of body in shown below

- Which part of the graph shows accelerated motion? Also calculate the acceleration.
- Which part of the graph shows retarded motion? Also calculate retardation
- Calculate the distance travelled by the body in first 4 seconds of the journey.



**Q11.)** The following is a **v-t graph** for a moving body. Find



- i) Velocity with which the motion started.
- ii) Velocity of body at point c
- iii). Acceleration acting on the body between A and B
- iv). Acceleration acting on the body between B and C

**Q12.)** A train is moving with an initial velocity of 30m/s. The brakes are applied to produce a retardation of 1.5m/s<sup>2</sup>. Calculate the time in which it will come to rest.

**Q13.)** A child drops a ball from a height of 10m. Assume that its velocity increases at the rate of 10m/s<sup>2</sup>. Find

- i) Velocity with which the ball strikes the ground
- ii) Time taken by the ball to reach the ground

**Q14.)** The driver of a car is travelling at 36km/h applies the brakes to deaccelerate uniformly. The car stops in 10 seconds. Plot the speed -time graph for this period. Find the distance travelled by the car during this period by calculating the area under the graph

**Q15.)** A train is travelling with a velocity of 72km/h .The brakes are applied to retard the motion of the train uniformly. If the train is stopped after 50m away from the place where brakes were applied. Find the retardation of the train

## CHEMISTRY

1. Do research on solar storms and make a report with pictures. (Maximum 3 A4 size sheets)

- What causes solar storms?
- What will be the effects of the solar storm?
- Is a solar storm good or bad?
- Are solar storms dangerous?
- Can a solar storm affect humans?
- Do solar storms affect Earth?
- Can solar storms damage Earth?
- Are solar storms common?
- When was the solar flare in 2024?
- What is a G5 solar storm?
- What is a geomagnetic storm in 2024?
- What is caused by solar wind?

2. Learn the names, symbols and atomic number of the first 20 elements in the periodic table.

3. Make marble paper with shaving cream (A4 size sheet)

<https://youtu.be/zq7MYBtz3Ok?si=dCf94EDLi73g8jZz>

### **BIOLOGY**

1. Make a well labelled 3D model of plant cell / animal cell or prokaryotic cell, showing all the organelles of the cell.

Roll no. – 1-20: Plant cell

Roll no. – 21-40: Animal cell

Roll no. – 41-45: Prokaryotic cell

2. Prepare an observational report on the growth of two potted plants (medicinal plants)

Conditions:

plant A is grown in the presence of manure.

plant B was provided with fertilizers

On the basis of above report, attempt these questions On A4 size sheet.

- a) How did the use of manure versus fertilizer impact the growth rates and overall health of the respective plants over the one-month observation period?
- b) How did the nutrient content of the soil change over the course of the month for each plant, and how did this impact their growth?
- c) What were the long-term effects, if any, of using manure or fertilizer on the soil quality and overall ecosystem within the potted plants' environment?
- d) Based on the results observed, which method—manure or fertilizer—would be recommended for future cultivation of similar plant species in potted environments, and why?

### **SOCIAL SCIENCE**

#### **SOCIAL SCIENCE PROJECT- 1**

#### **ACTIVITY: DISASTER MANAGEMENT PROJECT**

As per the guidelines of CBSE students have to compulsorily undertake one project on Disaster Management. The main objective of this project is to create awareness in them about different disasters, their consequences and management, prepare them in advance to face such situations and enable them to create awareness and preparedness among the community.

Students must research about the disasters, their types, causes and mitigation strategies which would help in enhancing their life skills.

#### **INSTRUCTIONS**

1. Students will undertake this as a group (House) activity. Students of every House will choose one type of disaster- Natural or Human-made disaster and every student in the group will take up any one disaster under the respective category. (Topic, definition, causes, mitigation strategies, one case study. Each student will contribute 3-4 A4 size sheets, a map showing disaster prone zones of India.
2. Every group will present their project as a handbook, spiral binded with a Cover page, Introduction and Bibliography at the end.

3. Each student must mention her name, roll number, class and section at the end her own work.
4. This group activity must have the individual contribution of every student.
5. Students can seek help from NCERT resources and online resources too.
6. This project must be an Art Integrated Activity. It must be colourful and creatively presented.
7. Students should use only light or pastel coloured sheets.
8. Students should draw/ sketch or trace the pictures. Avoid Pasting of pictures.

**Criteria for Assessment: -**

1. Originality 2 marks
2. Creativity 2 marks
3. Content 2 marks
4. Team work 2 marks
5. Overall Presentation 2 marks