

## Home Assignment Arts

Q.1 Collect a report on the Democratic Movement in Myanmar.

Class IX

Economics

Q.1 How are the farmers in Village Palampur able to grow crops from the same land? Why is it important to develop irrigation facilities?

Q.2 What measures can be taken by the government to improve the production of different farming and agriculture production in Manipur?

Geography Class IX

Q.1 Draw an outline map of India, locate and label the following features in appropriate symbol?

a) India-states with capitals, Tropic of Cancer, standard meridian

b) Mountain Ranges- The Karakoram, the Zasker, Shivalik, The Aravali, The Satpura.

c) Mountain peaks- K2, Kanchanjunga, Anai Mudi

d) Rivers- The Indus, The Ganges, The Brahmaputra, The Narmada, The Krishna, Mahanadi

Q.2 The Sun rises two hours earlier in eastern parts of Arunachal Pradesh as compared to Jaisalmer in the West but watches show the same time. How does it happen?

Q.3 Describe the role of rivers in the economic development in special reference to Loktak lake.

Q.4 What are the features of Himalayan mountains?

Q.5 Write short note on corals?

Assignment for Class IX

Maths

Q.1 Find six rational numbers between 3 and 4.

Q.2 Show how  $\sqrt{5}$  can be represented on the number line.

Q.3 Write the following in decimal form and say what kind of decimal expansion each has:

i)  $\frac{36}{100}$

ii)  $\frac{1}{11}$

iii)  $4\frac{1}{8}$

iv)  $\frac{3}{13}$

v)  $\frac{2}{11}$

vi)  $\frac{329}{400}$

Q.4 Find i)  $64^{\frac{1}{2}}$  ii)  $32^{\frac{1}{5}}$  iii)  $125^{\frac{1}{3}}$

Q.5 Write the coefficient of  $x^2$  in each of the following:

i)  $2 + x^2 + x$

ii)  $2 - x^2 + x^3$

iii)  $\frac{\pi}{2}x^2 + x$

iv)  $\sqrt{2}x - 1$

Q.6 Write the degree of each of the following polynomials:

i)  $5x^3 + 4x^2 + 7x$

ii)  $4 - y^2$

iii)  $5t - \sqrt{7}$

iv) 3

Q.7 Classify the following as linear, quadratic and cubic polynomials:

i)  $x^2 + x$

ii)  $x - x^3$

iii)  $y + y^2 + 4$

iv)  $1 + x$

v)  $3t$

vi)  $r^2$

Q.8 Find  $P(0)$ ,  $P(1)$  and  $P(2)$  for each of the following polynomials:

i)  $P(y) = y^2 - y + 1$

ii)  $P(t) = 2 + t + 2t^2 - t^3$

iii)  $P(x) = x^3$

iv)  $P(x) = (x - 1)(x + 1)$

Q.9 Find the remainder when  $x^3 - ax^2 + 6x - a$  is divided by  $x - a$

Q.10 Draw a cartesian plane and write the sign convention of all the four quadrants.

#### History

Q.1 Collect a report on the Democratic Movement in Myanmar.

# SLOPELAND PUBLIC SCHOOL

## Home Assignment

### Class IX Physics (Chapter 8 – Motion)

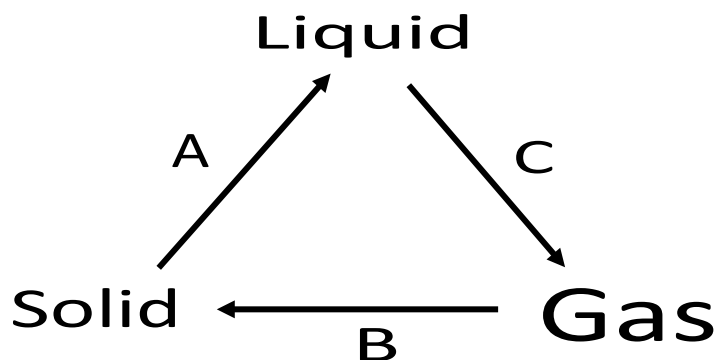
- Q1. An object has moved through a distance. Can it have zero displacement? If yes, support your answer with an example. (see page 100)
- Q2. A farmer moves along the boundary of a square field of side 10 m in 40 s. What will be the magnitude of displacement of the farmer at the end of 2 minutes 20 seconds? (see page 100)
- Q3. Which of the following is true for displacement?  
it cannot be zero  
Its magnitude is greater than the distance travelled by the object.
- Q4. An object travels 16 m in 4 s and then another 16 m in 2 s. What is the average speed of the object? (see page 101)
- Q5. Distinguish between speed and velocity. (see page 102)
- Q6. Under what conditions is the magnitude of average velocity of an object equal to its average speed?
- Q7. What does the odometer of an automobile measure?
- Q8. What does the path of an object look like when it is in uniform motion?
- Q9. During an experiment, a signal from a spaceship reached the ground station in five minutes. What was the distance of the spaceship from the ground station? The signal travels at the speed of light, what is,  $3 \times 10^8$  m/s.
- Q10. Draw a neat diagram of Distance-Time Graphs. (fig. 8.3)
- Q11. When will you say a body is in ( I ) uniform acceleration? ( II ) non-uniform acceleration?
- Q12. A bus decreases its speed from 80km/hr to 60km/hr in 5s. Find the acceleration of the bus.
- Q13. A train starting from a railway station and moving with uniform acceleration attains a speed 40km/hr in 10 minutes. Find its acceleration.
- Q14. Draw the Distance-Time Graph for a moving with non-uniform speed. (Figure 8.4)
- Q15. Draw the Velocity-Time Graph for uniform motion of a car. (figure 8.5)
- Q16. Draw the Velocity-Time Graph for a car moving with uniform acceleration. (figure 8.6)

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# SLOPELAND PUBLIC SCHOOL

Assignment  
For the Summer Vacation  
Class IX Science  
(Chemistry)

- Q.1 Describe what happens when sugar is dissolved in water and there is no increase in volume. 1
- Q.2 When 2ml of Dettol is dissolved in 100ml of water, the smell can be detected over on repeated dilution. Identify the physical nature of matter. 1
- Q.3 What is dry ice? Why is it so called? 2
- Q.4 *Give reasons* 3
- a) Naphthalene balls disappear with time without leaving any residue.
  - b) The smell of lighted incense stick reaches you several meters away
  - c) Steam produces more severe burns than boiling water
- Q.5 Name A, B and C in the following diagram showing change in its state. 3



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