

CLASS IX

HINDI

१. अनुच्छेद लिखो — (८० से १००) शब्दों में
मेरा भारत महान , त्योहारों का महत्त्व , बढ़ती जनसंख्या,कैशलेस भारत,कंप्यूटर,डिजिटल भारत
- २.अनौपचारिक पत्र लिखो —
. परीक्षा परिणाम बताते हुए पिता को पत्र ।
. योग का महत्त्व के बारे में बताते हुए भाई/बहन को पत्र ।
. मित्र की सफलता पर बधाई देते हुए पत्र ।
३. संवाद लिखो (५०) शब्दों में —
अवकाशकालीन योजना को लेकर दो छात्रों के बीच ।
बढ़ रहे प्रदूषण को लेकर दो मित्रों के बीच ।
धूम्रपान स्वास्थ्य के लिए हानिकारक विषय पर दो दोस्तों के बीच ।
४. विज्ञापन प्रस्तुतीकरण (२०-२५)शब्दों में —
दीवाली पर विशेष छूट के साथ मोबाइल ।
एक विशेष कंपनी के केश तेल की बिक्री के लिए ।
कपड़ों की बिक्री के लिए एक आकर्षक विज्ञापन तैयार करो ।
५. दृश्य वर्णन करो (२०-२५)शब्दों में —
विद्यालय के स्वच्छता अभियान का दृश्य ।
हॉकी मैच का दृश्य ।
एक सुंदर बगीचे का दृश्य ।
- ६.एवरेस्ट ,मेरी शिखर यात्रा पाठ के प्रश्न-उत्तर लिखो ।
- ७.स्मृति कहानी को पढ़कर प्रश्न-उत्तर लिखो ।

ENGLISH

- WRITING:
1. Three Formal Letters. (Letter of Complaint, Placing Order, Official)
 - 3.Three Informal Letters (Friends,Family,Relatives)
 - 4.Three Articles on current topics.
 - 5.Three Stories.(300 words)
 - 6.An Essay. (How did you spend your summer vacation. 500 words)

- GRAMMAR: Make notes of the following grammar items with examples.
- 1.Modals and their use
 - 2.Use of Passive
 - 3.Subject – Verb Agreements.
 - 4.Clause: Noun clause and Adverb Clause.
 - 5.Determiners.

READING/Listening: Write the review of an English Book/Movie recommended by your Parents/Teacher.

ODIA

- 1- WRITE SANDHI, SAMASHA, BIBHAKTI EXERCISE GIVEN IN THE CLASS.
- 2- WRITE ALL GIVEN QUESTION'S ANSWER OF LESSON-KAHAMUKHA ANAI BANCHIBEE- (POETRY).
- 3- WRITE ALL GIVEN QUESTION'S ANSWER OF LESSON-JAATIYA JIBANA (PROSE).
- 4- WRITE ALL GIVEN QUESTION'S ANSWER OF LESSON-BUDHASANKHARI (STORY).
- 5- WRITE ALL GIVEN QUESTION'S ANSWER OF LESSON- DALABEHERA (NATAKA).
- 6- WRITE ESSAY-
 - DESA PRAGATIREE' CHATRA SAMAJA' RA BHUMIKA.
 - BHARATIYA NAARI.
 - BHARATA O' BISWASANTI.
 - SAHITYA PATHARA UPADEYATA.

MATHEMATICS

From NCERT book

Chapter 1 - Number System

- Exercise 1.1- Q.No -2, 3, 4
- Exercise 1.2 -Q.No -1,2,4
- Exercise 1.3- Q.No -1, 3, 7, 8, 9
- Exercise 1.4- Q.No -1,2
- Exercise 1.5- Q.No - 2, 4,5
- Exercise 1.6 -Q.No- 1,2, 3

Chapter 2- Polynomials

- Exercise 2.1- Q.No -1,4,5
- Exercise 2.2 -Q.No- 1,2, 4
- Exercise 2.3- Q.No- 1,2,3
- Exercise 2.4- Q.No -1,3,4,5
- Exercise 2.5- Q.No-- 2 ,4, 5 ,7, 8 ,10, 11 ,14, 15, 16

Chapter 3 -Co-ordinate geometry

- Exercise 3.1 -Q.No 2
- Exercise 3.2 -Q.No- 1,2
- Exercise 3.3 - Q.No -1, 2

ANSWER ALL QUESTIONS

1. Rationalise the denominator of $\frac{5}{\sqrt{3}-\sqrt{5}}$.
2. Simplify, $2^{\frac{2}{3}} \cdot 2^{\frac{1}{3}}$.
3. Add $2\sqrt{2} + 5\sqrt{3}$ and $\sqrt{2} - 3\sqrt{3}$.
4. Express $0.\bar{6}$ in form of $\frac{p}{q}$.
5. Write two numbers whose decimal expansions are non terminating non recurring.
6. Define Remainder Theorem.
7. Expand $(2x+3y+4z)^2$
8. Find the remainder when x^3+3x^2+3x+1 is divided by $x+1$

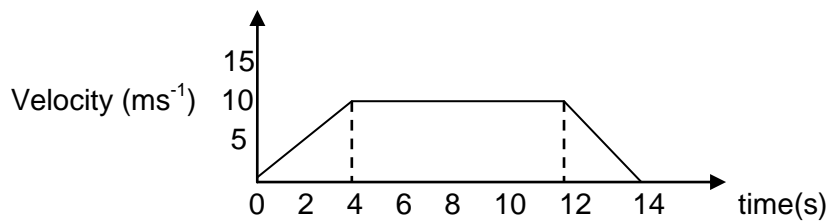
9. Find the zero of the polynomial $P(x)=x+6$.

PROJECT WORK:-

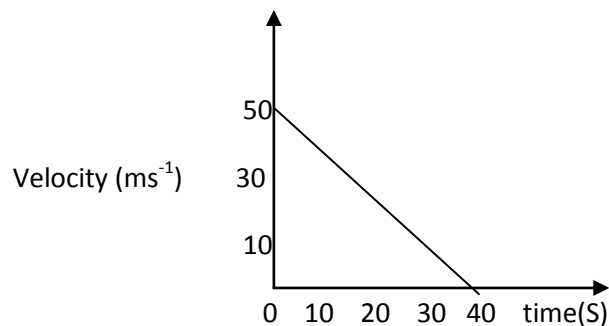
In a drawing sheet constructing the square root spiral for $\sqrt{2}, \sqrt{3}, \dots$, upto $\sqrt{15}$.

PHYSICS

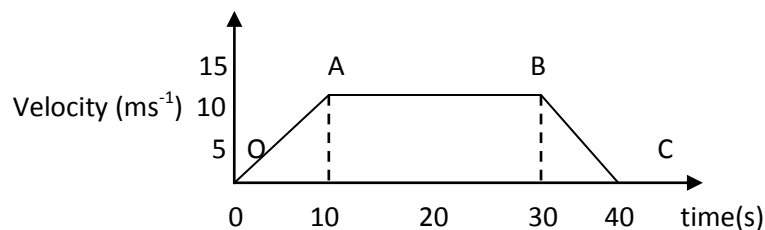
1. What is the numerical ratio of average velocity to average speed of an object moving along a straight line path?
2. Is it possible that the train in which you are sitting appears to move while it is at rest?
3. A ball is gently dropped from a height of 20m. If its velocity increases uniformly at the rate of 10ms^{-2} , with what velocity will it strike the ground? After what time will it strike the ground?
4. Find the displacement of a body whose velocity time graph is shown below:



5. Derive $s=ut+1/2at^2$ using graphical method.
6. A particle is moving in a circle of diameter 5m. What is its displacement when it covers one and half revolutions?
7. (a) What can be depicted from the graph regarding the motion of the object?
(b) Find the value of acceleration from the graph.



8. The velocity time graph of a body is shown below:
 - a. State the kind of motion represented by OA, AB and BC
 - b. What is the acceleration for BC
 - c. Find the distance travelled between 10th and 30th second.



9. Why do you think that speed with direction is more sensible than simply speed?
10. A car starts from rest and moves along the x-axis with constant acceleration 5 ms^{-2} for 8s. If it then continues with constant velocity, what distance will the car cover in 12s since it started from rest.
11. A ball is gently dropped from a height of 20m. If its velocity increases uniformly at the rate of 10 ms^{-2} , with what velocity will it strike the ground? After what time will it strike the ground.
12. A motor cyclist drives from 'A' to 'B' with uniform speed of 30kmph and returns back with a speed of 20kmph. Find its average speed.
13. Draw the graphs for the given information on a graph paper.

Time in seconds	0	2	4	6	8	10
Distance in metres	0	3	5	9	15	22

Time in seconds	0	3	6	9	12	15
Velocity of an object in m/s	0	1	3	5	7	7

14. Answer the exercise questions of the chapter MOTION

CHEMISTRY

Write the chemical formulae for the followings

1. Zinc oxide
2. Aluminium chloride
3. Calcium sulphide
4. Sodium carbonate
5. Magnesium nitrate
6. Barium sulphate
7. Potassium sulphate
8. Ammonium phosphate
9. Silver nitrate
10. Ferrous chloride
11. Aluminium phosphate
12. Calcium bicarbonate
13. Aluminium oxide
14. Potassium carbonate
15. Zinc chloride
16. Lead(II) nitrate
17. Silver bromide
18. Sodium sulphite

19. Magnesium oxide
20. Barium chloride
21. Ferric sulphate
22. Mercury(II) oxide
23. Copper(II)carbonate
24. Ferrous sulphate
25. Iron(II)sulphide

Write the name of the compounds whose chemical formulae are given below.

1. $Zn_3(PO_4)_2$
2. $Al_2(CO_3)_3$
3. K_2SO_4
4. NH_4NO_3
5. $Ca(OH)_2$
6. FeS
7. $PbCO_3$
8. Ag_2O
9. $BaSO_4$
10. $NaHCO_3$

Define followings:

1. Inter molecular force
2. Inter molecular space
3. Diffusion
4. Melting point
5. Boiling point
6. Latent heat of fusion
7. Latent heat of vaporization
8. Evaporation
9. Sublimation
10. Matter
11. What are the factors on which the rate of evaporation depends?
12. Convert the following temperature to Kelvin scale.
a) $0^\circ C$ b) $27^\circ C$ c) $100^\circ C$
13. Convert the following temperature to Celsius scale.
a) 300K b) 0K c) 100K
14. Why should we wear cotton clothes in summer?
15. How does the water kept in an earthen pot become cool during summer?
16. Why steam at $100^\circ C$ cause more severe burns than boiling water at $100^\circ C$?
17. Why ice at $0^\circ C$ cause more cooling effect than water at $0^\circ C$?
18. How does evaporation cause cooling?

REWRITE THE POINTS GIVEN IN YOUR TEXT BOOK PAGE 11 UNDER HEADING "What you have learnt".

Write all answer from your text book questions from the pages 3, 6, 10, 12.

BIOLOGY

1. Draw the labeled diagram of 3 types of plant tissues from text book.
2. Draw the labeled diagram of 2 types of animal tissues (striated muscle fibre and neuron)
3. Draw the labeled diagram of Spirogyra, Fern, Pinus, Dicot plant from the plant kingdom.
4. Draw the labeled diagram of Earthworm, cockroach, fish and pigeon from the animal kingdom.
5. Explain crop variety improvement in terms of desirable agronomic characters and biotic and abiotic factors.
6. Give any 2 examples of fodder crops.
7. Define green manure.
8. What do you mean by micronutrients? Name them.
9. Name any 2 Biopesticides.
10. Explain the plight of Indian farmers in present day situation.

HISTORY/CIVICS

PROJECT WORK

(The French Revolution)

1. Introduction – ½ page
2. Social cause – ½ page
3. Economic cause – ½ page
4. Political cause – ½ page
5. Philosophical cause – 6 pages
6. Absolute monarchy
7. National assembly
8. Constitutional monarchy
9. A monarchy and becomes a republic
10. The period of Robespierre
11. Abolition of slavery
12. Jacobin club
13. Women revolution
14. Olympe de gouge
15. Napoleon and his revolutionary works
16. Revolution in everyday life
17. Pictures of philosophers, Louis xiv, Louis xv, Louis xvi, Napoleon.

Make ready the questions' answers of lesson 1 (History) and Lesson 1 Civics.

GEOGRAPHY

Q1. On an outline Map of India show the following:-

- (i) Mountain and hill ranges- the Karakoram, the Zaskar, the Patkai Bum, the Jaintia the Vindhya range, the Aravali and the Cardmom hills.
- (ii) Peaks- K2, Kanchanjunga, Nanga Parabat and the Anai Mudi.
- (iii) Plateaus- Chotanagpur and Malwa.
- (iv) The Indian Desert, Western Ghats, Lakshadweep Islands.

Q2. Make a list of some highest peaks pf the Himalayas, with their countries and height.

Q3. Make a list of major rivers of India with their tributaries.

Q4. Differentiate between- (a) Andaman and Nicobar and Lakshadweep

(b) Bangar and Khadar

(c) Western Ghats and Eastern Ghats

Q5. Read and highlight the important points of lesson -2 on your book.

INFORMATION TECHNOLOGY

Q1. Describe the function of computers using a block diagram.

Q2. What do you mean by communication technologies? Explain in detail.

Q3. What is internet?

Q4. What are the various characteristics of computers?

Q5. Describe the limitations of computers.

