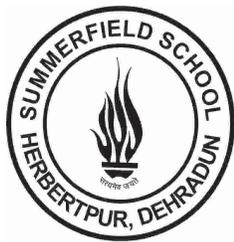


Class 12 students will do the Assignments in their subject notebooks that they have already started.

Assignment-1 for duration 16 April 2020 to 30 April 2020

DOWNLOAD BOOKLIST FOR 2020-21

Assignment-2 will be uploaded on 01 May 2020



**CLASS-12-SCIENCE
ASSIGNMENT-1
SUBJECT - HINDI**

प्रश्न १- पत्र लेखन:

क) कोरोना संक्रमण के बढ़ते प्रभाव को रोकने के लिए भारत सरकार की ओर से लोग लॉक डाउन का कुछ शरारती तत्वों के द्वारा अनुपालन नहीं किया जा रहा है। इसकी शिकायत करते हुए पुलिस आयुक्त देहरादून को शिकायती पत्र लिखे।

ख) दिन प्रतिदिन बिगड़ती कानून व्यवस्था की समस्या के प्रति चिंता प्रकट करते हुए नगर के पुलिस - कमिश्नर को पत्र लिखिए।

प्रश्न २- पाठ -१(जयशंकर प्रसाद- देवसेना का गीत, कार्नेलिया का गीत) पढ़िए और शब्दार्थ याद करके लिखिए।

प्रश्न ३- संचार के माध्यम पर आधारित २० अति लघु प्रश्नोत्तर लिखिए।

प्रश्न ४ - ' नेताजी सुभाष चन्द्र बोस ' विषय पर फीचर लिखिए।

प्रश्न ५ - ' स्वच्छ भारत अभियान ' विषय पर अनुच्छेद लिखिए।

प्रश्न ६ - अंतराल भाग २ के चारों पाठों का पठन किजिए।

SUBJECT - CHEMISTRY

Q1 Define the following terms :

a) molarity b) molality c) mole fraction.

Ans: refer page no. 37, 38, 39 of NCERT book.

Q2 Calculate a) molarity b) molality and c) mole fraction of KI if the density of 20% (mass/mass) aqueous KI is 1.202 g/ml.

Ans: refer page no.39 of NCERT textbook (intext question)

Q3 State Henry's law. What is relation between solubility of gases and Henry's constant (KH)?

Ans: Refer page no. 41 of NCERT text book.

Q4 Why do gases always tend to be less soluble in liquids as the temperature is raised?

Ans: refer page no. 43 of NCERT book.

Q5 Write all the applications of Henry's law.

Ans: refer page no. 42 , 43 of NCERT text book.

Q6 State Raoult's law for volatile liquids.

Ans: refer page no. 44 of NCERT textbook.

Q7 Vapour pressure of chloroform (CHCl_3) and dichloromethane (CH_2Cl_2) at 298 K are 200 mmHg respectively. (i) calculate the vapour pressure of the solution prepared by mixing 25.5 g of CHCl_3 and 40 g of CH_2Cl_2 at 298 K and (ii) mole fraction of each component in vapour phase.

Q8 What is the similarity between Raoult's law and Henry's law.

Ans: refer page no. 46 of NCERT textbook.

Q9 What are ideal and non ideal solutions?

Ans: refer page no. 47 of NCERT text book.

Q10 What is meant by positive and negative deviation from Raoult's law?

Ans: Refer page no. 47, 48 of NCERT text book.

SUBJECT - BIOLOGY

*Read chapter - 01; Reproduction from the NCERT app. Answer the following:

1. Name the process in living organisms that ensures the continuity of life on earth.
2. Define reproduction and its types.
3. Offsprings produced by asexual reproduction are referred to as clones. Why?
4. Mention the main difference between offspring produced by asexual reproduction and progeny produced by sexual reproduction.
5. Name the most invasive aquatic plant weed. Why is it called as "terror of Bengal".
6. What is vegetative propagation? Give examples.
7. What is a bisexual flower? Collect any available flower at home and observe the different parts of it. (optional - if flower is not available)
8. Tapeworms possess both male and female reproductive organs. What is the name given to such organisms? Give two more examples.
9. Write and define the events that take place during sexual reproduction.
10. Write the difference between Gametogenesis and Embryogenesis.

*Do watch the videos available on Diksha app regarding chapter-01 & 02.

SUBJECT – ENGLISH CORE **REFERENCE 'FLAMINGO'**

NAME OF LESSON

A. LOST SPRING

1. Read the lesson loudly to moderate your voice correctly and for comprehension.
2. Note making
 - a. Make notes of the lesson
 - b. Give another title.
 - c. Write the summary.
3. Dictionary work
Write the meanings of the following words:
perpetual/ glibly/ shuffled/ devoid/ desolation
4. Answer the following questions
 - a. Who is Sahib? Where does he live?
 - b. What work does he pick up later?
 - c. Write about the "shoeless condition" of the children of that time.
 - d. Who is Mukesh?
 - e. What are the living conditions of the bangle sellers?

f. What are Mukesh's future plans?

B. NAME OF LESSON DEEP WATER

REFERENCE FAMINGO

1. Read the lesson loudly and for comprehension .
2. Note making
 - a. Make suitable notes.
 - b. Give another title.
 - c. Write the summary
3. Dictionary work ...write the meaning of the following words:
treacherous/subdued/ misadventure/ exertion/ handicap
4. Answer the following questions
 - a. Who was William Douglas?
 - b. Write about his first misadventure
 - c. What happened at the pool?
 - d. How did he get trained?
 - e. How did he finally get rid of his fear?

C. Writing skills:

Write a letter to your sports shop ordering sports equipment for your school.

SUBJECT – PHYSICS

Read lesson 1 from your text book and answer the following.

- 1) What is electroscope? [NCERT Text/App page 4, figure 1.2]
- 2) What are Conductors and Insulators? [NCERT Text/App page 5, topic 1.3]
- 3) Explain charging by induction. [NCERT Text/App page 6, topic 1.4, figure 1.4]
- 4) Write short notes on each and every basic property of electric charges. [NCERT Text/App page 8 & 9, topic 1.5]
- 5) Explain Coulomb's law, its verification, and vector form. [NCERT Text/App page 10 to 12, topic 1.6]
- 6) Derive equation for forces between multiple charges based on Coulomb's law. [NCERT Text/App page 13 & 14, topic 1.7]
- 7) Consider three charges q_1, q_2, q_3 each equal to q at the vertices of an equilateral triangle of side l . What is the force on a charge Q (with the same sign as q) placed at the centre of the triangle, as shown in Fig. 1.9? [NCERT sample 1.6, page 16]
- 8) Consider the charges $q, q,$ and $-q$ placed at the vertices of an equilateral triangle, as shown in Fig. 1.10. What is the force on each charge? [NCERT sample 1.7, page 17]
- 9) Understand the concept of Electric Field. [NCERT Text/App page 18, topic 1.8]
- 10) Find the relation between electrostatic force and field. [NCERT Text/App page 19, topic 1.8]

SUBJECT – MATHS

Solve the following questions

Q1. Determine whether the following relations are reflexive, symmetric and transitive :

1. Relation R in the set $A = \{1,2,3,\dots,13,14\}$ defined as $R = \{(x, y) : 3x-y=0\}$
2. Relation R in the set N of natural numbers defined as $R = \{(x, y) : y=x+5 \text{ and } x<4\}$
3. Relation R in the set $A = \{1,2,3,\dots,9,10\}$ defined as $R = \{(x, y) : 2x-y= 0\}$

4. Relation R in the set $C = \{1,2,3,4,5,6\}$ defined as $R = \{ (x, y) : y \text{ is divisible by } x \}$
- Q2. Give examples of relations which are
- I. Symmetric but neither reflexive nor transitive
 - II. Transitive but neither reflexive nor symmetric
 - III. Symmetric and reflexive but not transitive
 - IV. Reflexive and transitive but not symmetric
- Q3. Show that the relation R in the set $A = \{ 0,1,2,3,\dots,11,12 \}$ given by $R = \{(a, b) : |a-b| \text{ is a multiple of } 4 \}$ is an equivalence relation. Also find equivalence class [2] .
- Q4. Check the injectivity and surjectivity of the following functions.
- I. $f: \mathbb{N} \rightarrow \mathbb{N}$ given by $f(x) = x^2$
 - II. $f: \mathbb{Z} \rightarrow \mathbb{Z}$ given by $f(x) = x^3$
 - III. $f: \mathbb{R} \rightarrow \mathbb{R}$ given by $f(x) = x^2$
 - IV. $f: \mathbb{R} \rightarrow \mathbb{R}$ given by $f(x) = |2x - 3|$
- Q5. Let $A = \mathbb{R} - \{3\}$ and $B = \mathbb{R} - \{1\}$. Show that the function $f: A \rightarrow B$ defined by $f(x) = (x-2)/(x-3)$ is bijective.
- Q6. Solve question no. 9 of ex. 1.3 by taking hint from the example no. 25 page no. 15 and 16 of NCERT book part 1.
- Q7. Solve example no. 23 page no. 15 of NCERT book part 1 .
- Q8. show that the function $f: \mathbb{N} \rightarrow \mathbb{N}$ defined by $f(x) = ax + b$, where $a, b \in \mathbb{N}$ is one-one but not onto.
- Q9. Show that the relation R in the set A of all triangles defined as $R = \{ (T_1, T_2) : T_1 \text{ is congruent to } T_2 \}$ is an equivalence relation.
- Q10. Answer the following questions
- I. What is an equivalence relation?
 - II. Define one-one and onto function with mapping.
 - III. Give an example of a relation on $A = \{a, b, c\}$ which is reflexive , symmetric and transitive.

SUBJECT – PHYSICAL EDUCATION

Note : Read Unit-1 from your PDF file and Answer the following.

1. What do you mean by planning? Explain the objective of planning.
2. List down the various types of tournaments?
3. Define the term Fixture, Bye and Seeding. Make a Knock-out fixture for 21 teams. Give the benefits of knock-out fixture?
4. Explain the meaning of Intramural and Extramural?
5. Highlight the advantages of Extramural and Intramural activities?
6. State the duty of any four committees for organising a successful sports tournament?
7. Discuss the planning part for organising a specific sports programme like Run for Unity and Run for Fun?
8. What are Round Robin tournaments?