

DAV PUBLIC SCHOOL, BARIATU, RANCHI

SUMMER HOLIDAY HOMEWORK (2021-22)

STD X

SUB.- ENGLISH

READING TASKS

Q.1. Read the following passage and answer the given questions: -

Nationalism is a curious phenomenon which at a certain stage in a country's history gives life, growth and unity. It has a tendency to limit one because one thinks of one's country as something different from rest of the world. Nationalism which is a symbol of growth for a people becomes a symbol of cessation of that growth in mind. Nationalism sometimes goes on spreading in an aggressive way and becomes a danger internationally. Whatever line you follow, you will arrive at the conclusion that some kind of balance must be found. Culture which is essentially good becomes not only static but aggressive and something that breeds conflict and hatred when looked from a wrong point of view. It is folly to talk of culture when human beings starve and die. Human beings today are not in mood to tolerate this suffering and starvation and inequality when they see that the burden is not equally shared. Others profit while they only bear the burden.

a) Nationalism is a symbol of

- | | |
|-----------------|-------------|
| i) pride | ii) growth |
| iii) humbleness | iv) culture |

b) Culture is essentially good but becomes

- | | |
|-------------|------------|
| i) dynamic | ii) worse |
| iii) static | iv) rotten |

c) Nationalism is a _____ phenomenon

- | | |
|---------------|-------------|
| i) natural | ii) curious |
| iii) cultural | iv) ethical |

d) It is folly to talk of culture when

- | | |
|---------------------------------------|-------------------------------------|
| i) human beings starve and die | ii) culture becomes aggressive |
| iii) the burden is not equally shared | iii) nationalism becomes successful |

e) The verb form of exclusion is exclude. What is the verb form of conclusion?

- | | |
|---------------|-----------------|
| i) include | ii) conclusive |
| iii) conclude | iv) concludable |

Q.2. Read the passage given below and answer the given questions from the passage only.

1. Academics has always been an essential part of human development. It prepares us to survive in the world and establish an identity of your own. In India, from an early age, we have been taught that education is limited to the boundaries of academics only; the idea of getting out into

the field, for gaining practical experience, is always considered a hoax. This has hindered students' development.

2. In the 21 st century, the pure academics type of education is slowly paving way for a whole new type. People have now come to understand that education is a 360 degree activity that should focus on students' overall development, rather than restricting them to the classroom.

3. Co-curricular activities that take place outside the classroom but reinforce or supplement classroom curriculum, in some way, have become a point of focus today. Such activities help in the growth of the child, in more than one way. Participating in these activities helps the youngsters grow mentally and emotionally, socially and individually.

4. Classroom teaching provides the foundation and co curricular activities provide practical exposure and opportunities to implement what students learn in the classroom. This helps in developing the overall personality of an individual, inculcating various soft- skills in them, which otherwise are difficult to teach. Clearly, life beyond academics creates creative and empowered professionals.

a) Students' development is hindered by:

- i. limiting education to academics boundaries
- ii. getting out to the field
- iii. being creative and unique
- iv. gaining practical knowledge

b) The shift in the education system means:

- i. to restrict to classroom
- ii. to focus on academic development
- iii. to ignore 360 degree activity
- iv. to focus on overall development

c) Co-curricular activities that take place outside the classroom do not help in:

- i. teamwork and coordination
- ii. mental and social growth
- iii. intellectual development
- iv. character building

d) Classroom teaching provides:

- i. practical exposure
- ii. opportunities to implement what is learnt in classroom
- iii. chance to learn soft-skills
- iv. the foundation

e) Life beyond academics facilitates:

- i. organisational functions
- ii. creativity
- iii. professional fields
- iv. industrial visits

Q.3. Read the given story and answer the following questions: -

I was seven years old. I had lived at the same place for my life, but we were moving. We were moving from the farm with all its animals, with its memories of searching for chicken eggs, and with the black and white cows that had to be milked each day. We were going from the place of scrub pines, of pastures, of irrigation ditches to an unknown unknowable place, far far away. We

had worked hard to get ready. Finally, dad piled all of us into the car. As we began to drive away, I looked out of rear window of car. As I looked back, I saw my dog, and my cats, I could not see my horse. I asked my father what would happen to these pets. All that dad could tell me was that they had to remain there, that they could not come with us. There was no explanation-merely the declaration that we must go. I was bitterly disappointed that this memory is still seared into me. Forty-three years later, Why could not my father change this? I could not understand then, but I do now. But still don't understand why there was no explanation.

a) The narrator remembering this episode is now;

- i) 30 years old
- ii) 40 years old
- iii) 45 years old
- iv) 50 years old

b) His regret, at that time, was that:

- i) he would miss his books
- ii) he would miss his pets
- iii) he would miss his games
- iv) he would miss his friends

c) He asked his father as to:

- i) what would happen to his pets
- ii) what would happen to his friends
- iii) what would happen to his books
- iv) what would happen to his games

d) Leaving the farm, the child was very disappointed because he could not understand:

- i) why his father could not stop him
- ii) why his mother could not unpack the luggage
- iii) why his father could not change the situation
- iv) why his brother could not oppose his father

e) The verb form of explanation is

- i) explanatory
- ii) explainable
- iii) explainable
- iv) explain

GRAMMAR EXERCISES

Q.4. Complete the text below with words from the hint given below: -

Bowling for Columbine

Bowling for Columbine is a documentary film, produced and _____ by Michael Moore. It explores the main _____ for the Columbine High School massacre that killed 12 students and one teacher on April 20, 1999. Moore focuses on the background and _____ in which the shooting took place, as well as common opinions on why violence is so _____ in America. The film's title refers to what the students _____ for the Columbine shooting – Eric Harris and Dylan Klebold – did on the day they committed the attacks.

HINT: - (Causes, Widespread, Narrated, Responsible, Environment)

Q.5. Some of the lines in the text below have a word which should not be there. If the line is correct put a tick at the end of the line. If the line has a word which should not be there, write the word at the end of the line.

1. My home town is a small village in the southern Alps of France called Montpasse.
2. In the past days most people were farmers but today people earn
3. their living from tourism and small businesses. Montpasse is being a pretty
4. town with an old castle and wonderful views of the mountains. The sun
5. shines the most days, even in winter when the weather is perfect for skiing

LISTENING/WRITING TASKS

Q.6. Listen to the audio and answer the questions accordingly.

AUDIO-1



AUD-20210603-WA0
010.mp3

Task-1 Opportunity for world class education

- A) The Nobel Laureate is an (1)_____event.
- B) The university is (2)_____by AICTE.
- C) It is ranked (3)_____best in the world.
- D) The (4)_____is located at Knowledge Park.

Task-2

- A) Architecture is a branch of engineering.
- B) The work of an architecture is to make buildings.
- C) The NATA is a qualifying test for architectural buildings.
- D) Eco-friendly inputs for buildings are conceived by architects.
- E) One can pursue a master`s degree in architecture after school.
- F) A graduation degree in architecture needs five years of study.
- G) There are institutions teaching architecture throughout India.

Task-3

- A) A small camera in the finger reader scans the text.
- B) Braille books have raised dots.
- C) The finger reader will not replace Braille texts.
- D) The device has been worked upon by researchers at MIT.
- E) Anyone can carry the gadget to a restaurant.
- F) Jerrie Berrier is attached by its portability.
- G) The finger reader helps the blind read in real time.

Task-4

1. The accidental discovery of a skeleton was made at
 - a. Panipat
 - b. Sonapat
 - c. Chandayan
2. The skeleton was supporting a
 - a. sari with beads
 - b. copper crown
 - c. copper carnelian
3. The local population ransacked the area
 - a. in search of gold at the site
 - b. out of curiosity
 - c. for souvenirs
4. The expert in charge of the operation is
 - a. Dr R S Bisht
 - b. Dr Carnelian

c. Dr Sankhyan

5. The crown and set of teeth is nowadays with
 - a. the Archaeological Survey of India
 - b. the locals at the Chandayan
 - c. the amateur archaeologist
6. The kind of crown worn by the skeleton
 - a. belongs to the Harappan period
 - b. belongs to the modern period
 - c. is from the local culture

Q.7. Listen to the audio and answer the questions accordingly.

Audio-2



AUD-20210603-WA0
014.mp3

Task-1 Celebrate a fire free day

- A. The best (1)_____ against fire is prevention.
- B. Raise an (2)_____ in case of a fire.
- C. Dial 101 for (3)_____ help in case of a fire.
- D. Take proper (4)_____ to prevent fire outbreaks.

Task-2

- A. Robots greet visitors to the restaurants.
- B. After they are loaded with ingredients, the robots can cook.
- C. Robots have been made in USA.
- D. They can carry off food to customers.
- E. They escort guests to the kitchens.
- F. The robots were made by Song Tugang at his daughter`s behest.
- G. The robots can grasp forty easy sentences.
- H. The robots are charged by solar power.

Task-3

- A. In a digital marketing an intern is placed under the digital manager.
- B. Internships give students a glimpse of an industry they might join in future.
- C. Summer Holidays come once a year.
- D. Students who like teaching can join the national education management.
- E. Students interested in fashion could work with leading designers.
- F. Animation is what most students like.
- G. A music buff could join a portal dealing with live experts.

Task-4

1. The first Mandela Day
 - a. is being celebrated by its family
 - b. is marked by worldwide celebrations
 - c. is marked by distributions of brooms
2. People gathered to dedicate 67 minutes of service
 - a. to recall the years of activism by Mandela
 - b. as that figure marks his years to prism
 - c. as he found that a lucky number

3. Mandela`s famous quotes were
 - a. declared by leaders in speeches
 - b. telecast over the Indian network
 - c. posted on social media

4. Google honoured the late leader by
 - a. posting a special message
 - b. posting his speeches
 - c. making a special doodle of a smiling Mandela

5. The Good Deeds Day in his honour was started
 - a. in 1998 in July in Paris and London and New York
 - b. in 1990 in Paris
 - c. in 2009, in Johannesburg and New York

6. The years spent by Mandela in prison are
 - a. 27 years
 - b. 67 years
 - c. after 2009

SUB.-हिन्दी

CLASS- X

1- निर्देशानुसार वाक्य परिवर्तन करें: -

- (क) - मैं सो नहीं सका क्योंकि मैं पढ़ रहा था। (सरल वाक्य में)
- (ख) - वह घर आया और उसने भोजन किया। (सरल वाक्य में)
- (ग) - वह फल खरीदने के लिए बाजार गया (संयुक्त वाक्य में)
- (घ) - रात को आकाश में तारों का मेला लग गया। (संयुक्त वाक्य में)
- (ङ) - शिक्षक के सामने छात्र शांत रहते हैं। (मिश्र वाक्य में)
- (च) - शीला ने एक पुस्तक माँगी और वह उसे मिल गई। (मिश्र वाक्य में)

2- निम्नलिखित वाक्य पात्रों की कौन - सी विशेषता की ओर संकेत करते हैं: -

- (क) - हालदार साहब हमेशा चौराहे पर रुकते और नेता जी को निहारते।
- (ख) - पानवाला उदास हो गया। उसने पिछे मुड़कर मुँह का पान नीचे थूका और सिर झुकाकर अपनी धोती के सिरे से आँखें पोंछता हुआ बोला - साहब! कैप्टन मर गया।
- (ग) - कैप्टन बार - बार मूर्ति पर चश्मा लगा देता था।

3- सीमा पर तैनात फ़ौजी ही देश - प्रेम का परिचय नहीं देते। हम सभी अपने दैनिक कार्यों में किसी न किसी रूप में देश प्रेम प्रकट करते हैं ;जैसे - सार्वजनिक संपत्ति को नुकसान न पहुँचाना, पर्यावरण संरक्षण आदि। अपने जीवन - जगत से जुड़े ऐसे और कार्यों का उल्लेख कीजिए और उन पर अमल भी कीजिए।

4- पाठ - 'मानवीय करुणा की दिव्य चमक' के प्रश्नोत्तर करें।

5- पाठ - 'यह दंतुरित मुसकान' के प्रश्नोत्तर करें।

6- इस कोरोना काल में हमें अपने बचाव के लिए किन - किन बातों का खयाल रखना चाहिए एवं क्या - क्या सावधानियाँ बरतनी चाहिए।

(नोट - प्रश्न - 1-5 गृह कार्य की कॉपी में करें)

(प्रश्न - 6- फाईल में करें)

कक्षा-दशमी (ग्रीष्मावकाशस्य गृहकार्यम्)

1) कोरोनामहामारीसमस्यायाः समाधानोपायान् चित्रं निर्माय दशवाक्यानि लिखन्तु ।

2) सन्धिं सन्धिविच्छेदं वा कृत्वा लिखन्तु ।

क) सम्यगुक्तम्

छ) प्रबुद्धः + अस्ति

ख) कश्चन्

ज) सत् + मार्गम्

ग) धनुष्टंकारः

झ) मनः + रथः

घ) पितुरिच्छा

ट) हरिः + इच्छा

च) तपोवनम्

ठ) नमः + कारः

3) प्रकृति - प्रत्ययौ संयोज्य विभज्य वा लिखत ।

क) शिष्या

च) सुत + टाप्

ख) विद्यावन्तः

छ) शक्ति + मतुप्

ग) बालिका

ज) महत्वम्

घ) वार्षिकः

झ) दिन + ठक्

4) अधोलिखितानाम् अंकानां स्थानेषु संस्कृतभाषायां समयलेखनं कुरुत ।

क) 1:00 च) 11:15 ट) 8:15

ख) 2:15 छ) 12:30 ठ) 7:30

ग) 3:30 ज) 10:45 ड) 6:45

घ) 4:45 झ) 9:15 ढ) 5:15

5) नियमानुसारेण वाच्यपरिवर्तनं कृत्वा वाक्यानि लिखन्तु ।

क) त्वं समाचारपत्रे पठसि ।

ख) अहं क्रीडामि ।

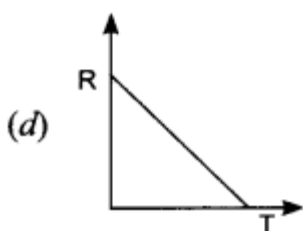
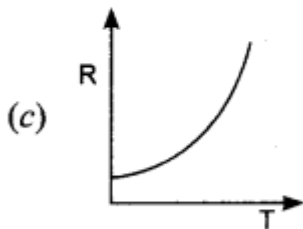
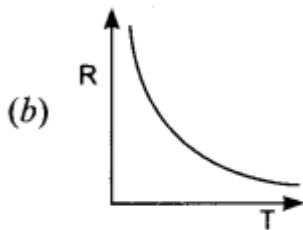
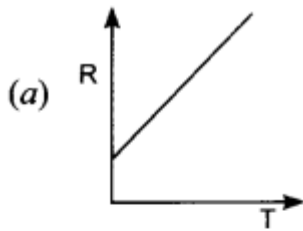
ग) तया पुस्तकानि पठ्यन्ते ।

घ) बालकः चलचित्रं पश्यति ।

SUB.- PHYSICS
(CLASS- X)

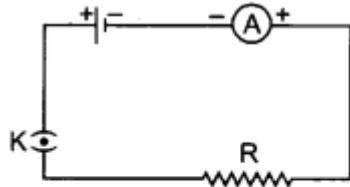
TYPE 1 [MCQ]

1. A wire of length l , made of material resistivity ρ is cut into two equal parts. The resistivity of the two parts are equal to,
(a) ρ
(b) $\rho/2$
(c) 2ρ
(d) 4ρ
2. The temperature of a conductor is increased. The graph best showing the variation of its resistance is

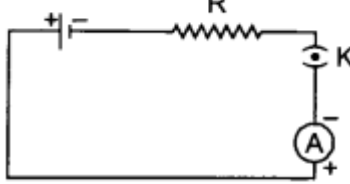


3. A battery of 10 volt carries 20,000 C of charge through a resistance of 20 Ω . The work done in 10 seconds is
(a) 2×10^3 joule
(b) 2×10^5 joule
(c) 2×10^4 joule
(d) 2×10^2 joule
4. A boy records that 4000 joule of work is required to transfer 10 coulomb of charge between two points of a resistor of 50 Ω . The current passing through it is
(a) 2 A
(b) 4 A
(c) 8 A
(d) 16

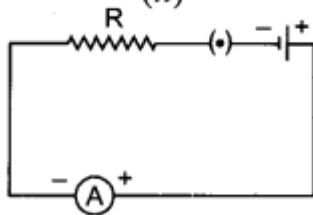
(c) maximum in (iii)



(i)



(ii)



(iii)

(d) same in all the cases

TYPE II [ASSERTION AND REASON TYPE]

Direction (Q11 to Q15): In the following Questions, the Assertion and Reason have been put forward. Read the statements carefully and choose the correct alternative from the following:

- (a) Both the Assertion and the Reason are correct and the Reason is the correct explanation of the Assertion.
- (b) The Assertion and the Reason are correct but the Reason is not the correct explanation of the Assertion.
- (c) Assertion is true but the Reason is false.
- (d) The statement of the Assertion is false but the Reason is true.

11. Assertion: When a battery is short circuited, the terminal voltage is zero.

Reason: In short circuit, the current is zero.

12. Assertion: Conductors allow the current to flow through themselves.

Reason: They have free charge carriers.

13. Assertion: In an open circuit, the current passes from one terminal of the electric cell to another.

Reason: Generally, the metal disc of a cell acts as a positive terminal.

14. Assertion: The statement of Ohm's law is $K = IR$

Reason: $V = IR$ is the equation which defines resistance.

15. Assertion: Bending of wire decrease the resistance of electric wire.

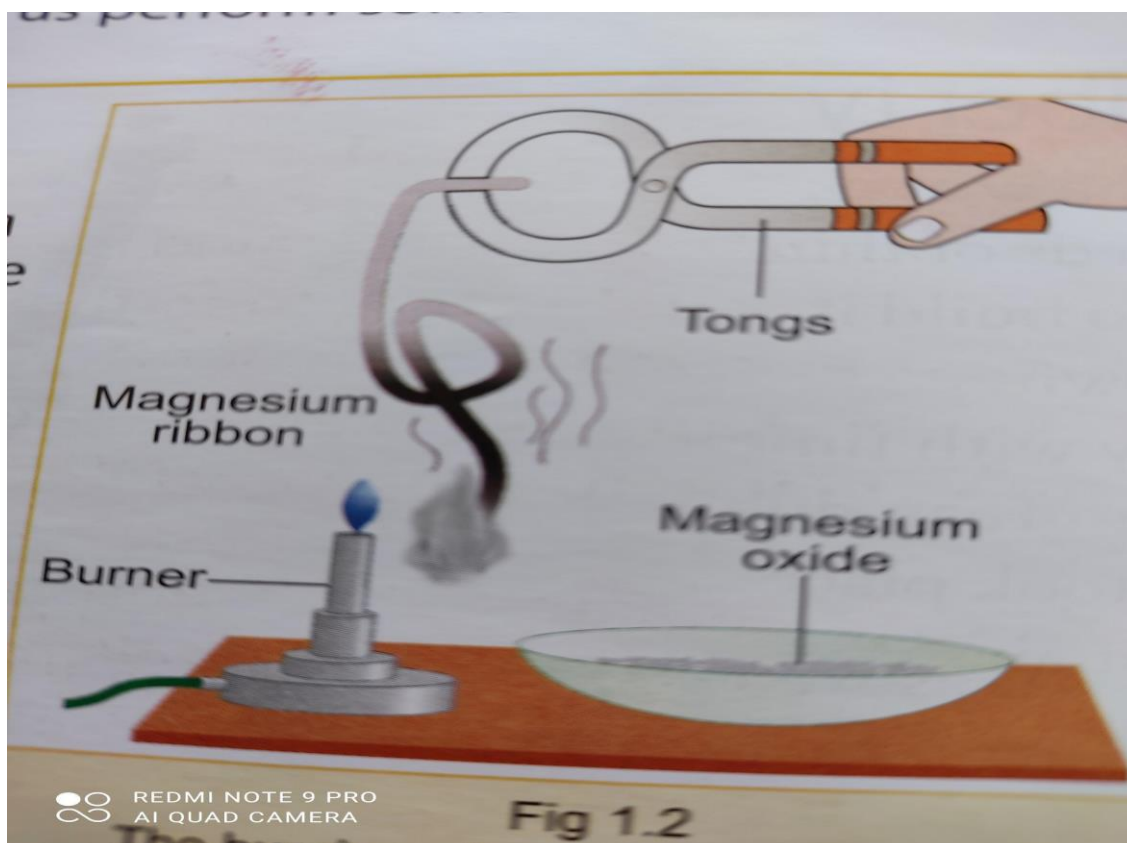
Reason: The resistance of a conductor depends on length, thickness, nature of material and temperature of the conductor.

TYPE III [FILL UPS]

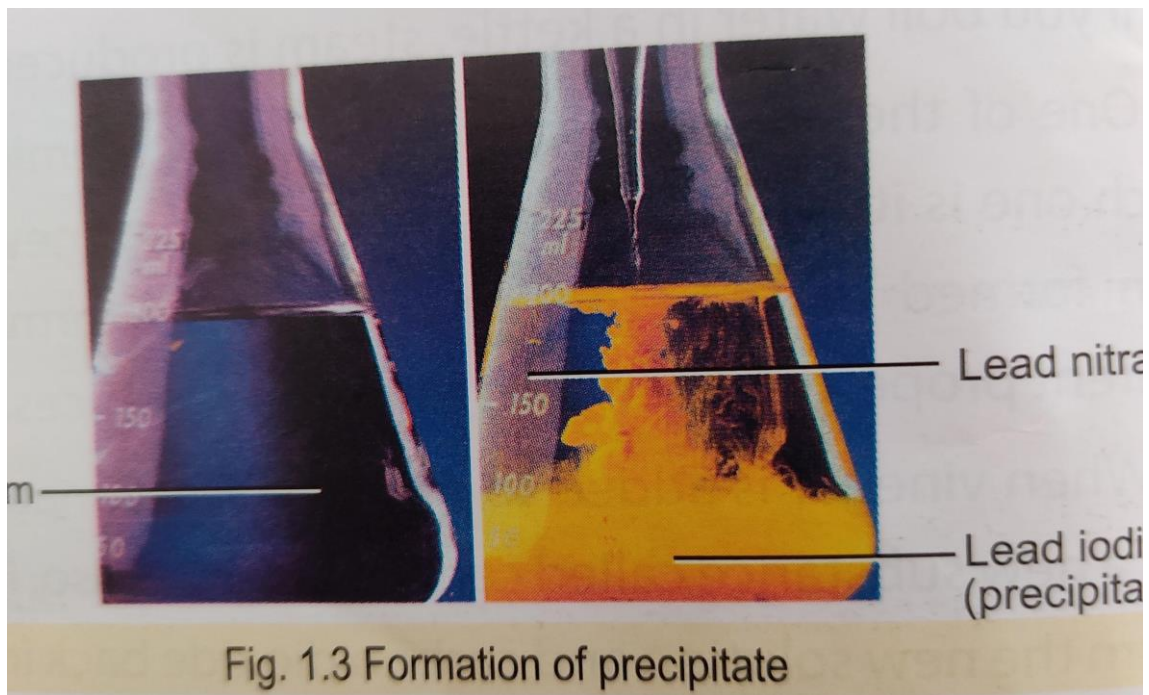
16. Connecting many resistors in parallel, will _____ the resistance of the circuit
17. Current is a _____ quantity
18. Presence of argon prolongs the life of _____ .
19. With the help of a circuit diagram describe an activity to show that current is proportional to applied potential.
20. what is joule's law of heating effect. Write various factors affecting heat produced in a current carrying conductor. Obtain an equation for heat produced.

SUB.- CHEMISTRY CLASS- X

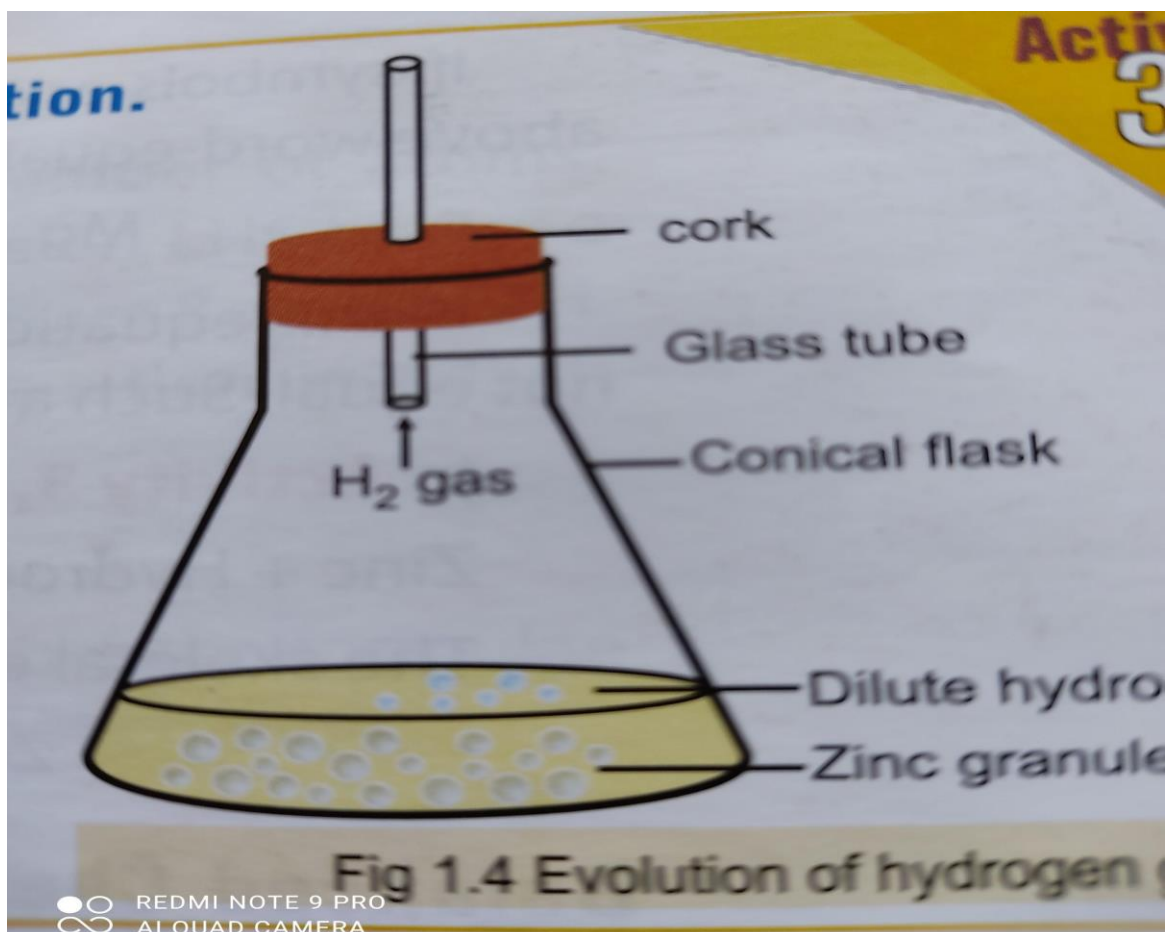
- 1) a) when magnesium ribbon is burning, what do you observed?
b) what is the nature of oxide formed?



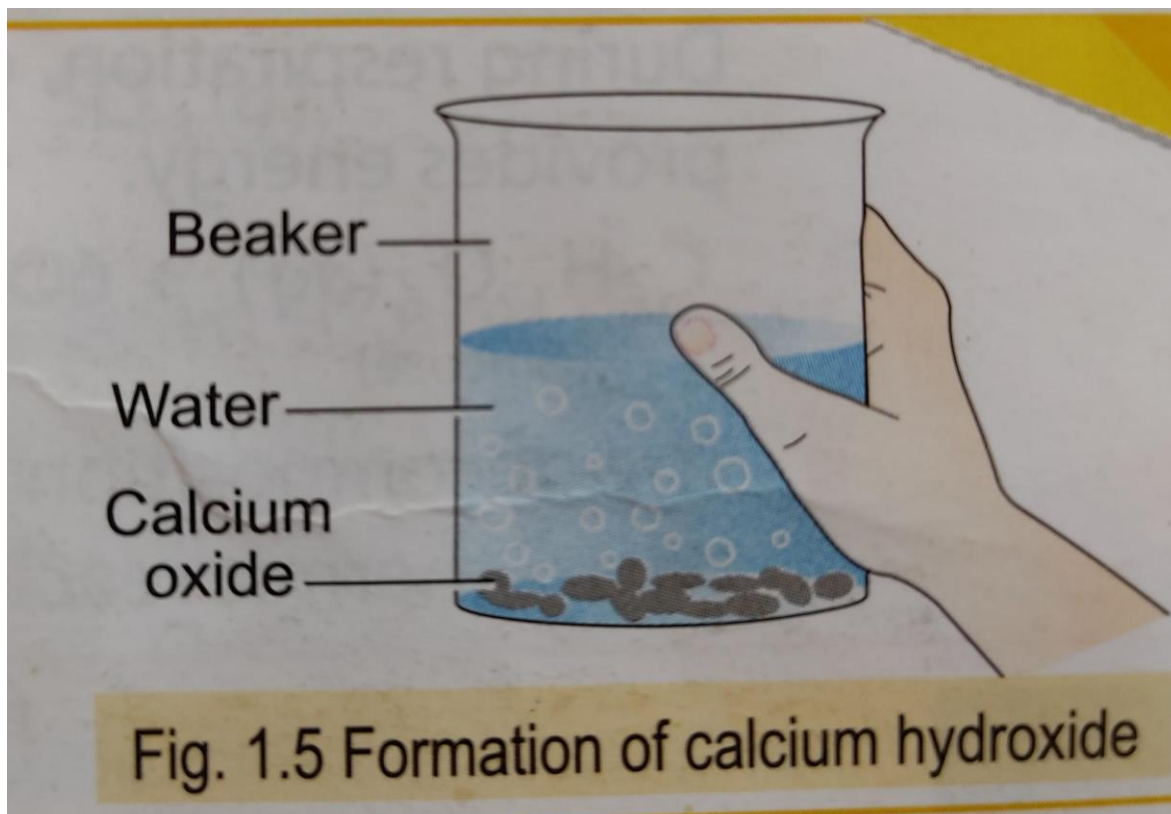
- 2) a) what do you observe when potassium iodide solution is added to lead nitrate solution in a test tube?
b) What is this type of reaction called?



- 3) a) What happens to zinc granules when dilute hydrochloric acid or sulphuric acid is added to it?
- b) what happens if nitric acid is taken instead of hydrochloric acid?
- c) How will you identify that given gas is hydrogen gas?

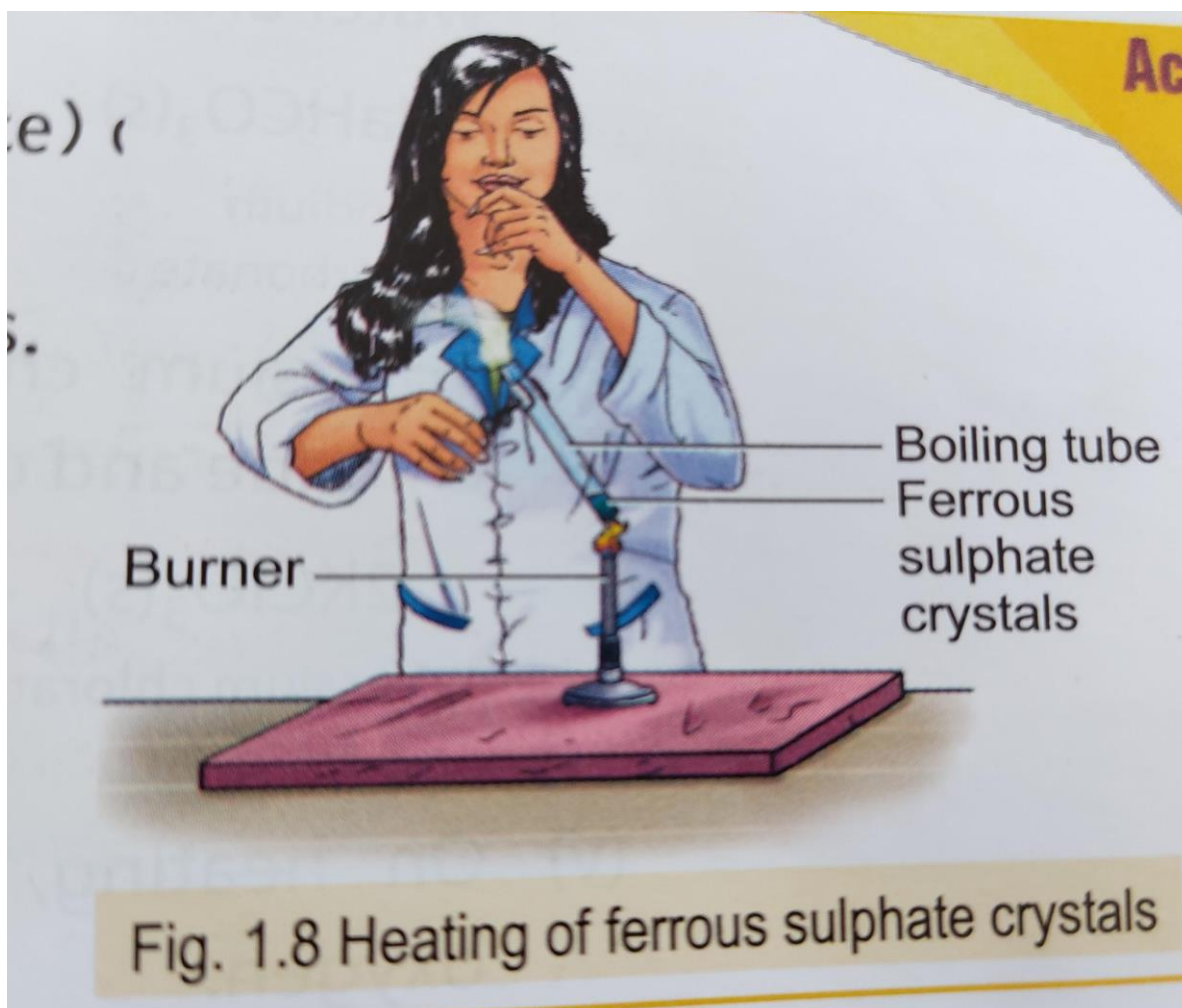


- 4) a) Is there any change in temperature when water is added to calcium oxide or quick lime in a beaker? any change in its temperature?
- b) what is this type of reaction called?



5) a) Do you observe any change in the colour of ferrous sulphate crystals when they are heated in the boiling tube over the flame of a burner or spirit lamp?

b) write down the reaction involved in this activity.



SUB.- BIOLOGY
CLASS- X

1. Solve the following Assertion & Reason based questions:

Select the correct answer to these questions from the codes (i), (ii), (iii) & (iv) as given below:

- (i) Both Assertion (A) & Reason (R) are true and reason is correct explanation of assertion
- (ii) Both assertion (A) & reason (R) are true, reason is not the correct explanation of the assertion.
- (iii) Assertion (A) is true but reason (R) is false
- (iv) Assertion (A) is false but reason (R) is true

1. Assertion: Left ventricle of heart has bicuspid valve.

Reason: Left ventricle is smaller as compared to right ventricle.

2. Assertion: Fish respire several more rapidly than humans.

Reason: Water has low content of oxygen as compared to air.

3. Assertion: Small intestine is smaller in herbivores as compared to carnivores.

Reason: Vegetable matter is difficult to digest.

4. Assertion: Molecular movements are needed for life.

Reason: Body structures made up of these molecules need continuous repair and maintenance.

5. Assertion: Blood undergoes ultrafiltration in the region of glomerulus.

Reason: Efferent arteriole is narrower than afferent arteriole.

6. Assertion: Rings of cartilage are present in the throat.

Reason: These ensure that the air passage does not collapse.

2.

It is compulsory for everyone to make a model on any one of the following topics (using the materials available at home)

Human Digestive System/ Human Respiratory System/ Human Heart/ Excretory System/
Nephron

SUB.- MATHEMATICS

CLASS- X

Write about any one Indian mathematician.

1. Find the LCM and HCF of 40, 36 and 126 by prime factorization method.
2. Show that $5 + 2\sqrt{3}$ is irrational.
3. Explain why $7 \times 11 \times 13 + 13$ is a composite number.
4. Use Euclid's division lemma to show that square of any positive integer is either of the form $3m$ or $3m+1$.
5. Find the zeroes of the polynomial $X^2 - 3X - 28$ and verify the relationship between the zeroes and the co-efficients.
6. If α and β are zeroes of the polynomial $X^2 - 6X + a$, then find the value of a if $3\alpha + 2\beta = 20$
7. If $\sqrt{2}$ is a zero of the polynomial $6X^3 + \sqrt{2} X^2 - 10X - 4\sqrt{2}$, then find the other two zeroes.
8. Solve for X and Y:

$$\frac{x}{a} + \frac{y}{b} = a + b \text{ and } \frac{x}{a^2} + \frac{y}{b^2} = 2, (a, b \neq 0)$$

10. Draw graph of the equations $X - Y + 1 = 0$ and $3X + 2Y - 12 = 0$.

Determine the co-ordinates of the vertices of the triangle formed by these lines and the x-axis and shade the triangular region

11. ACTIVITY: To verify the condition for the consistency/inconsistency for a pair of linear equation

In two variables by graphical method.

SUB.- SOCIAL SCIENCE
CLASS- X

- I Write short notes on the contribution made by the following revolutionaries:
- a. Count Cavour
 - b. Giuseppe Mazzini
 - c. Giuseppe Garibaldi
 - d. Otto Von Bismarck
 - e. Napoleon Bonaparte
- II What steps was taken by Gandhiji for the upliftment of the untouchables?
- III Write a newspaper report on Simon Commission.
- IV Why is Power sharing desirable in a democratic country? Explain.
- V Give a comparative study of the ways in which the Belgian and Sri Lankan Government dealt with the problems of cultural diversities. What lessons do we learn from the principles followed by them?
- VI How are the powers divided between the state and the centre. Explain with examples.
- VII Mapwork
- i) Locate and label the following centres where Indian National Congress sessions were held:
 - a) Calcutta (September 1920)
 - b) Nagpur (December 1920)
 - c) Madras (1927)
 - d) Lahore (1929)
 - ii) Locate and label the following places:
 - a) The place where Gandhiji broke the Salt Law.
 - b) Jalianwala Bagh Massacre.
 - c) The place where cotton mill workers organized 'Satyagraha'.
 - d) The place related to the calling off of the 'Non-Cooperation movement'
 - e) The place where the peasants struggled against the 'Indigo plantation system'.

PROJECT WORK:

1. Evolution and significance of the symbols associated with Indian Freedom Movement. Design a symbol for 21st century reflecting its nationhood. Explain the symbols.

OR

Comparative study of India and any one country from these- United States of America / Australia / South Africa. The study report should include – meaning and features of Federalism and how successful has federalism been in both the countries. Which system – ‘A Federal or Unitary’ do you favour in India and why?

GEOGRAPHY & ECONOMICS:

Answer the following questions:

1. Draw a flow chart to show the classification of resources and describe.
2. Write about alluvial soils, black soils, laterite soils, red soils under the following heads: Formation, Areas where found, main characteristics & crops produced.
3. What do you know about land use pattern of India? What are the causes of land degradation?
4. Mention the steps taken by the Govt. to conserve the wildlife in India.
5. Classify species of animals & plants on the basis of IUCN.
6. What are the criteria used by the UNDP for classifying countries?
7. Why do we use averages to compare the development of countries? Are there any limitations to this use?
8. “What may be development for one may not be development for others.” Give two examples.
9. Make Project on **any one** of the following topics:
 1. Consumer Awareness.
 2. Sustainable Development
 3. Social Issues.
10. On the **Political Map of India** mark the following:
 1. Major soil types found in India
 2. Major National Parks & Wildlife Sanctuaries.
11. Make one **PPT** on **any one** of the following topic
 1. Conservation of forest & wildlife.
 2. Soil resource of India.
 3. Land degradation & measures to control land degradation.

SUBJECT – IT
CLASS- X

THEORY ASSIGNMENT

1. What do you mean by Style? Explain.
2. What do you mean by cropping? How can you crop an image?
3. What is Template? How can you create a template?
4. What is TOC?
5. What is mail merge? Explain.
6. Write steps to resize an image.
7. What is wrap text around image?
8. What are different categories of styles in Writer?
9. Write steps to load styles from an existing file.
10. What is the utility of Fill format mode?

PRATICAL ASSIGNMENT

1. Open Writer
2. Create a template for a formal letter to some government authority.
3. Create a template for a two column document.
4. Create a template for a landscape document with first page reserved only for the title.
5. Try cropping grouped elements. Can you do so?

SUBJECT- ARTIFICIAL INTELLIGENCE
STD-X

Create a project in Python consisting of the following:

- I. Looping Statement (for..else, while ..else)
- II. Conditional Statement (if..elif..else)

SUB – AUTOMOTIVE
CLASS – X

Create a Mini Project on one of the following: -

- a. Chassis
- b. Cooling system
- c. Fuel Supply System
- d. Engine Components