

# DAV PUBLIC SCHOOL, DVC, MTPS, BANKURA

## SUMMER HOLIDAY HOMEWORK

SESSION 2024-2025

Class: X

Subject: English Communicative

### General Instructions:

1. All questions given below is compulsory.
2. Do the homework in a separate holiday homework copy.
3. It has to be submitted after the vacation.
4. This task will be included in your internal activity & will be graded.

1. Read the passage given below

### The Measles Resurgence

Autism spectrum disorders (ASD) are a range of psychological conditions characterised by Abnormalities in social instruction, behaviour interests, and communication. The five forms of ASD include classical autism, Asperger syndrome, Pervasive Developmental Disorder, Rett syndrome, and Childhood Disintegrative Disorder. Although the number of reported cases of ASD have experienced a dramatic increase in the past 25 years, the majority of doctors agree that this increase is due to changes in diagnostic practises and advances in the understanding of psychiatric health.

While there is no general consensus among medical professionals about the underlying causes of ASD, theories range from genetic inheritance to environmental factors. One of the most controversial theories to have emerged in recent times is the hypothesis that ASD could be caused by the MMR vaccine, which is an immunisation against measles & mumps. The vaccine is a mixture of three live viruses and is administered via injection to children when they are one year old. By the late 1990s, this vaccination had led to the near eradication of measles in countries that employed widespread inoculation. However, a combination of spurious scientific data and alarmist media attention led to an entirely preventable resurgence in measles cases in the early 21<sup>st</sup> century.

The first claims of a connection between the MMR vaccine and autism were made in 1998, when an article in The Lancet a respected British medical journal, reported eight cases of autism that could possibly be traced back to the administration of an MMR vaccine. The parents of the children in this study contended that the symptoms of autism in their children developed within days of vaccination. During a press conference, Andrew Wakefield, one of the doctors to stop giving combined MMR vaccine, instead advocating for individual inoculation against measles, mumps and rubella.

Following the publication of this article, Wakefield published several follow-up papers that further questioned the safety of the MMR vaccine. An onslaught of media coverage then began. Parents appeared on television sharing anecdotal evidence linking their Childs inoculation to the onset of ASD. The popular press quickly seized upon this story: in 2002, over 1200 articles were written about the link between MMR & ASD. Less than 30% of these articles mention that an overwhelming amount of scientific evidence suggested that these vaccinations were completely safe.

**Based on your understanding of the passage, answer the question given below.**

<b>I.</b>	The purpose of parents appearing on the television sharing anecdotal evidence was _____.		
<b>II.</b>	<p>Select the option that is true for the two statements given below.</p> <p>(1) According to a study, it is found that the cause behind ASD in children is increasing stress and anxiety at a tender age.</p> <p>(2) The advancement in diagnostic techniques by doctors had proven great to decrease the number of ASD cases.</p> <p>a. (1) is the result of (2).  b. (1) is the reason for (2).  c. (1) is true &amp; (2) is false.  d. Both (1) &amp; (2) are false.</p>		
<b>III.</b>	State the meaning of the statement “The popular press quickly seized upon this story”.		
<b>IV.</b>	According to the doctors, the number of reported cases of ASD have experienced a dramatic increase in the past 25 years. It is because of _____		
<b>V.</b>	<p>Select the option listing what the given sentence refers to.</p> <p>The symptoms of ASD did not include:</p> <ol style="list-style-type: none"> <li>1. Abnormalities in social interaction.</li> <li>2. High fever.</li> <li>3. Bipolar behaviour.</li> <li>4. Unusual interests.</li> <li>5. Abnormal communication.</li> </ol> <p>a. 1,2 &amp; 3  b. 2 &amp; 3  c. 4 &amp; 5  d. 1, 3 &amp; 5</p>		
<b>2.</b>	<p>A. You are Sudipta/ Rajan of 230, Sector 4, Rohini, New Delhi. You are a student of class X-A of Arya School, New Delhi. Metro Rail has become very popular, comfortable and a convenient mode of transport in your city. Unfortunately, the premises in front of your school has become an unauthorized transport stand for feeder buses of the metro station.</p> <p>Write a letter to the chief of the Traffic Police suggesting the removal of the transport in front of the school premises, You may take some ideas from MCB Unit 4: Environment and Unit &amp; Travel and Tourism to write the letter.</p>		
<b>3.</b>	<p>We are fortunate to live in a country where we can experience many seasons throughout the year. Those suffering from arthritis and breathing problem may curse the monsoon, but I love the season the most. Taking help from MCB Unit 4: 'Environment', and the cues given in the following pointers, along with your own ideas write an article in about 150 words for your school magazine. You are Naresh of class X A.</p> <table border="1"> <tr> <td> <p><b>ADVANTAGES OF MONSOON</b></p> <ul style="list-style-type: none"> <li>• monsoon is refreshing to almost all beings.</li> </ul> </td> <td> <p><b>DISADVANTAGES OF MONSOON</b></p> <ul style="list-style-type: none"> <li>• monsoon brings many diseases in its wake.</li> <li>• roads and streets get flooded causing traffic jam.</li> </ul> </td> </tr> </table>	<p><b>ADVANTAGES OF MONSOON</b></p> <ul style="list-style-type: none"> <li>• monsoon is refreshing to almost all beings.</li> </ul>	<p><b>DISADVANTAGES OF MONSOON</b></p> <ul style="list-style-type: none"> <li>• monsoon brings many diseases in its wake.</li> <li>• roads and streets get flooded causing traffic jam.</li> </ul>
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	<ul style="list-style-type: none"> <li>• the crow and the kite, the lizard, and the little owl feast on ants</li> <li>• the little rivulets full of little fishes</li> <li>• the fireflies light the lamps.</li> <li>• there is freshness and greenery all around</li> <li>• caterpillars feed on tender foliage</li> <li>• green crickets hide themselves under the leaves.</li> <li>• farmers are happy to see their fields dancing with rain</li> </ul>	<ul style="list-style-type: none"> <li>• affects the supply of electricity.</li> <li>• thunderstorms and dust storms along with lightning become dangerous.</li> <li>• due to heavy rainfall rivers overflow their banks causing soil erosion.</li> <li>• drains get blocked creating unhygienic conditions around</li> </ul>												
<p>3.</p>	<p>Write an email in about 50 words to the Principal of your school requesting him to issue your transfer certificate &amp; Character certificate as your father has been transferred to another city &amp; you have to go along &amp; join another institution.</p> <table border="1"> <tr> <td><b>From:</b></td> <td></td> </tr> <tr> <td><b>To:</b></td> <td></td> </tr> <tr> <td><b>Cc:</b></td> <td></td> </tr> <tr> <td><b>Date:</b></td> <td></td> </tr> <tr> <td><b>Subject:</b></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>		<b>From:</b>		<b>To:</b>		<b>Cc:</b>		<b>Date:</b>		<b>Subject:</b>			
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**DAV PUBLIC SCHOOL, DVC, MTPS**  
**SESSION 2024 - 25**  
**HOLIDAY HOMEWORK ASSIGNMENT**  
**Class :- X**  
**SUBJECT:HINDI**

1. निम्नलिखित पदों में प्रयुक्त अलंकारों के नाम लिखिए-

क) यह देखिए, अरविंद-से शिशुवृंद कैसे सो रहे।

ख) उसे काल मारे क्रोध के तनु काँपने उसका लगा।  
मानो हवा के ज़ोर से सोता हुआ सागर जगा ॥

ग) शशि-मुख पर घूँघट डाले अंचल में दीप छुपाए।

घ) हनुमान की पूँछ में, लगन न पाई आग।  
लंका सगरी जल गई, गए निशाचर भाग ॥

ड) बीती विभावरी जाग री।  
अंबर पनघट में डुबो रही तारा घट उषा नागरी।

2. निर्देशानुसार रचना के आधार पर वाक्य परिवर्तन कीजिए-

- i) 'न तो तुम वहाँ जा सके, न ही मैं।' (सरल वाक्य)
- ii) सूर्योदय होते ही प्रकृति का सौंदर्य खिल उठता है। (संयुक्त वाक्य)
- iii) विद्यालय का समारोह समाप्त हुआ और लोग घर चले गए। (मिश्र वाक्य)
- iv) मैं जानता हूँ कि वह यह कार्य नहीं कर सकेगा। (रेखांकित उपवाक्य का भेद लिखिए)

3. निर्देशानुसार वाच्य बदलिए:-

- i) अध्यापकों द्वारा विद्यालय में शिक्षा दी जाती है। (कर्तृवाच्य वाच्य)
- ii) मैं बैठ नहीं सकता। (भाववाच्य)
- iii) लड़कों ने स्कूल साफ़ किया। (कर्मवाच्य)
- iv) पुलिस द्वारा कल रात कई चोर पकड़े गए। (कर्तृवाच्य वाच्य)

4. निम्नलिखित पठित पद्यांश पर आधारित बहुविकल्पीय प्रश्नों के सर्वाधिक उपयुक्त विकल्प चुनकर लिखिए:-

लखन कहा हसि हमरे जाना। सुनहु देव सब धनुष समाना ॥  
का छति लाभु धनु तोरें। देखा राम नयन के भोरें ॥  
छुअत टूट रघुपतिहु न दोसू। मुनि बिनु काज करिअ कत रोसू॥  
बोले चितै परसु की ओरा। रे सठ सुनेहि सुभाउ न मोरा ॥  
बालकु बोलि बंधीं नहि तोही। केवल मुनि जइ जानहि मोही॥  
बाल ब्रह्मचारी अति कोही। बिस्वबिदित क्षत्रियकुल द्रोही ॥

भुजबल भूमि भूप बिनु कीन्ही। बिपुल बार महिदेवन्ह दीन्ही।  
सहसबाहुभुज छेदनिहारा। परसु बिलोकु महीपकुमारा ॥

i) लक्ष्मण के अनुसार सभी धनुष कैसे थे?

- क) बेकार और पुराने नए      ख) नए  
ग) एक समान                      घ) इनमें में कोई नहीं

ii) लक्ष्मण के अनुसार धनुष तोड़ने में राम का कोई दोष क्यों नहीं था?

- क) धनुष पहले से ही टूटा हुआ था  
ख) राम ने शिव जी के धनुष को नया समझकर सिर्फ छुआ था  
ग) धनुष पुराना था और राम के छूते ही टूट गया  
घ) ख और ग दोनों

iii) काव्यांश के आधार पर परशुराम के स्वभाव की क्या विशेषताएँ थीं?

- क) वे बल ब्रह्मचारी और क्रोधी स्वभाव के थे  
ख) साहसी और शांत स्वभाव के थे  
ग) वे बहुत कोमल स्वभाव के थे  
घ) इनमें से कोई नहीं

v) भुजबल भूमि भूप बिनु कीन्ही। बिपुल बार महिदेवन्ह दीन्ही।  
उपर्युक्त पंक्ति में कौन-सा अलंकार है ?

- क) श्लेश अलंकार      ख) अनुप्रास अलंकार  
(ग) यमक अलंकार      घ) उत्प्रेक्षा अलंकार

5. हालदर साहब के लिए कौन सा कौतूहल दुर्दमनीय हो उठा, जिसे पानवाले से पूछे बिना वह नहीं रह सके थे?

6. नगरपालिका ने नेताजी की मूर्ति चौराहे पर लगवाने की हड़बड़ाहट क्यों दिखाई थी ?

7. आप सूरदास के उद्धव को भाग्यशाली मानते हैं या नहीं ? अपनी कल्पना शक्ति के आधार पर सही तर्क देकर स्पष्ट कीजिए।

8. 'गुर चाँटी ज्यों पागी' कहकर गोपियाँ अपनी और कृष्ण की किस दिशा का बोध करा रही हैं?

9. दूरदर्शन अधिकारी को कार्यक्रमों में सुधार हेतु सुझाव के लिए ई-मेल कीजिए।

10. इंटरनेट के बढ़ते उपयोग के साथ ही ऑनलाइन धोखाधड़ी और साइबर क्राइम में भी बहुत वृद्धि हुई है। इस बारे में छोटी बहन/ छोटे भाई को सतर्क करने के लिए लगभग 120 शब्दों में पत्र लिखिए।

### गतिविधि

'भारत को आज़ाद करवाने में आज़ाद हिंद फ़ौज की भूमिका' पर 120 शब्दों में अनुच्छेद लिखिए।

# D.A.V. PUBLIC SCHOOL , DVC , MTPS

SESSION : 2024-2025

## SUMMER VACATION HOMEWORK

CLASS : IX

SUBJECT : BENGALI

প্রদত্ত প্রশ্নগুলির সঠিক বিকল্প উত্তরটি নির্বাচন করে লেখ

1। “ ক্রমশ ও কথাটাও ছড়িয়ে পড়ে” - কোন কথাটা কোন কথাটা ছড়িয়ে পড়ে?

ক) তপনের গল্প তার মেসো ছাপিয়ে দেবার প্রতিশ্রুতি দিয়েছে।

খ) মেসো তপনের প্রতিভার প্রশংসা করেছে।

গ) মেসো তপনের গল্প কারেকশন করেছে।

2। “ আরে বাবা ক্ষেপছিস কেন জিজ্ঞেস করছি বই তো নয়” - কে কোন প্রসঙ্গে একথা বলেছিল ?

ক) তপনের বাবা তাকে লেখক সাহিত্যিক বলে ঠাট্টা করার পর

খ) তপনের ছোট মাসি তার বরকে গল্পটি দেখিয়ে আসার পর

গ) তপনের ছোট মাসি গল্পটি তপনের নিজের লেখা নয় বলে সন্দেহ প্রকাশ করার পর

3। মন্তব্য- তা হোক নতুন নতুন অমন হয়

কারণ-ক) তপন প্রথম গল্প লিখেছে, তাই অমন হতেই পারে।

খ) নতুন মেসো বিয়ের পর প্রথম তপনদের বাড়িতে এসেছে বলে বেশি আদর যত্ন করা হচ্ছে।

বিকল্প কারণগুলির মধ্যে সঠিকটি নির্বাচন করে লেখ।

ক) কারণ ক সঠিক হলেও কারণ খ ভুল

খ) কারণ ক ভুল কিন্তু কারণ খ ঠিক

গ) কারণ ক এবং কারণ খ দুটি ভুল

4। কার্য - এর প্রত্যেকটি লাইন তো নতুন আনকোরা তপনের অপরিচিত।

কারণ - (ক) তপন নিজে গল্পটি লেখেনি বলে

কারণ - (খ) তপনের মেসো গল্পটিকে আগাগোড়া কারেকশন করেছেন বলে

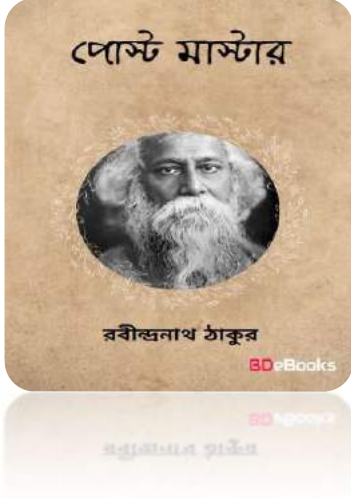
কার্য ও কারণ বিষয়ে প্রদত্ত বিকল্পগুলির মধ্যে কোনটি গ্রহণযোগ্য

i) কারণ (ক) সঠিক হলেও কারণ (খ) ভুল

ii) কারণ (ক) ভুল হলেও (খ) ঠিক

iii) কারণ (ক) এবং (খ) দুটোই ঠিক





- 5। পোস্টমাস্টার চলে যাবার পরও রতনের মনে হয়েছিল  
 ক) পোস্টমাস্টার ফিরে আসবেন যাবেন না  
 খ) পোস্টমাস্টার ফিরে এসে রতনকে নিয়ে যাবেন  
 গ) পোস্টমাস্টার কোনদিন তাকে ভুলতে পারবেন না  
 6। কার্য - পোস্টমাস্টার চাকরি ছেড়ে চলে যাচ্ছেন  
 কারণ - ক) পোস্টমাস্টারের বদলি হয়নি  
 কারণ - খ) পোস্টমাস্টার কলকাতায় ভালো চাকরি পেয়েছেন  
 কার্য ও কারণ ভিত্তিক প্রদত্ত বিকল্পগুলির মধ্যে কোনটি গ্রহণযোগ্য  
 i) কারণ (ক) ও (খ) দুটোই ঠিক  
 ii) কারণ (ক) এবং (খ) দুটি ভুল।  
 iii) কারণ (ক) ঠিক হলেও কারণ (খ) ভুল।

7। গল্পে পোস্টমাস্টারের মনের অবস্থা বোঝাতে কোন ধরনের উপন্যাসের উল্লেখ আছে  
 ক) ভৌতিক উপন্যাসের খ) ঐতিহাসিক উপন্যাসের গ) রূপকথাশ্রয়ী উপন্যাসের

8। মন্তব্য - রতন পোস্ট অফিস গৃহে চারদিকে ঘুরে ঘুরে বেড়াতো  
 কারণ - ক) নতুন পোস্টমাস্টার তাকে খেতে পরতে দেবে এই আশায়  
 কারণ - খ) তার মনে একটু আশা জেগেছিল যে তার দাদাবাবু টি হয়তো আবার ফিরে আসবেন  
 মন্তব্য ও কারণ সম্পর্কিত ঠিক বিকল্পটি নির্বাচন কর

- i) কারণ (ক) ভুল কিন্তু কারণ (খ) ঠিক  
 ii) কারণ (ক) ঠিক হলেও কারণ (খ) ভুল  
 iii) কারণ (ক) এবং (খ) দুটি ভুল

9। বিসর্গের পরে যদি র - থাকে তবে আগের বর্ণের বিসর্গ লোপ পায় ও পূর্বের হ্রস্ব স্বরটি দীর্ঘ হয়

এই নিয়মে নিচের কোন সন্ধিবদ্ধ পদটি গঠিত হয়েছে

ক) নিরন্তু খ) সরোবর গ) আশীর্বাদ

10। যদি বিসর্গের পরে -থ থাকে তখন বিসর্গের স্থানে স হয় এই নিয়মে নিচের কোন সন্ধিবদ্ধ পদটি তৈরি হয়েছে

ক) পুরস্কার খ) মনস্থ গ) মুখস্থ



প্রকল্প - তোমার কোন পাহাড় ভ্রমণের অভিজ্ঞতা রঙিন চিত্রসহ 200 শব্দ সংখ্যার মধ্যে বর্ণনা কর।



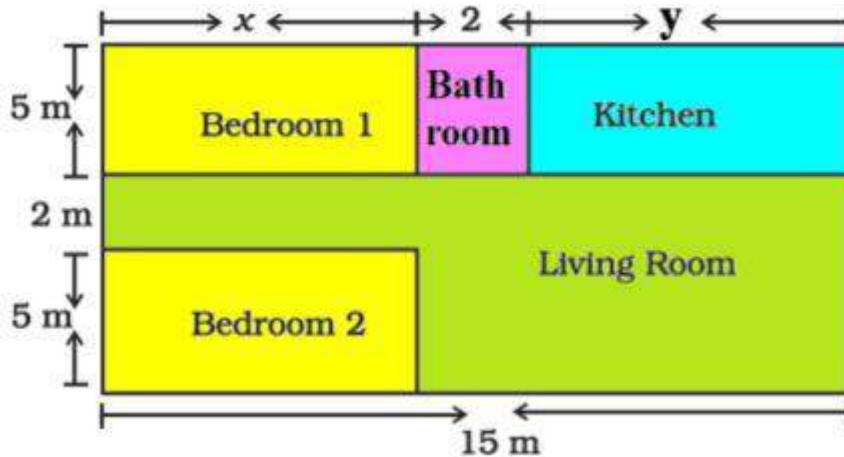




16

**CASE STUDY-1:**

Amit is planning to buy a house and the layout is given below. The design and the measurement has been made such that areas of two bedrooms and kitchen together is 95 sq.m.



Based on the above information, answer the following questions:

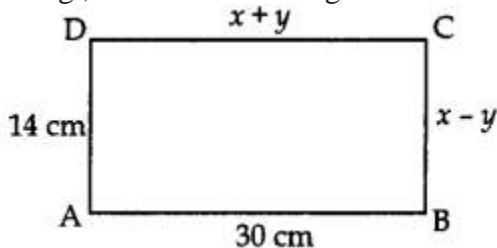
1. Form the pair of linear equations in two variables from this situation.
2. Find the length of the outer boundary of the layout.
3. Find the area of each bedroom and kitchen in the layout.
4. Find the area of living room in the layout.
5. Find the cost of laying tiles in kitchen at the rate of Rs. 50 per sq.m.

17

Prove that  $\sqrt{2}$  is an irrational number.

18

In Fig., ABCD is a rectangle. Find the values of  $x$  and  $y$ . [CBSE 2018]



19

If  $51x + 23y = 116$  and  $23x + 51y = 106$ , then find the value of  $(x - y)$ .

20

If  $\alpha$  and  $\beta$  are zeroes of the polynomial  $2x^2 - 5x + 7 = 0$ , then find the value of  $\alpha^{-1} + \beta^{-1}$



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**SESSION: 2024-2025**  
**CLASS: X**

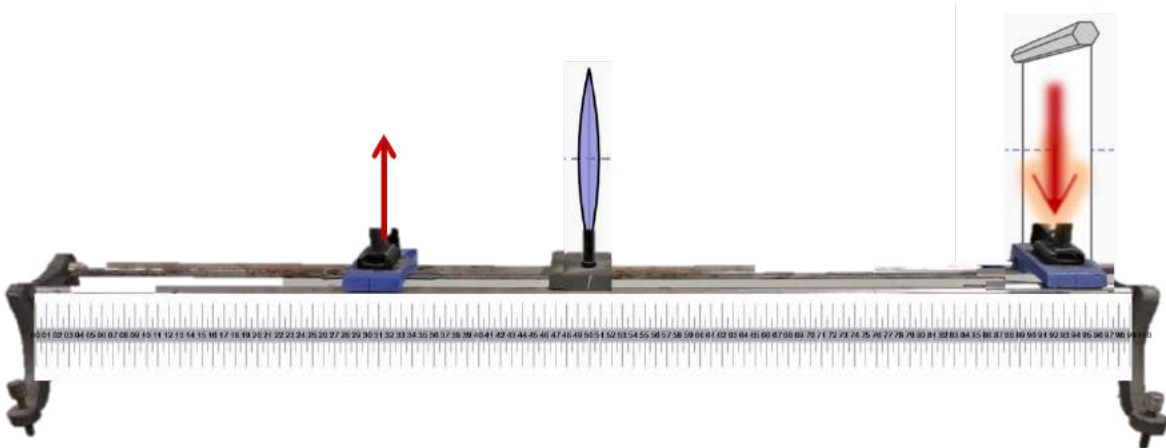
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**SECTION – A**

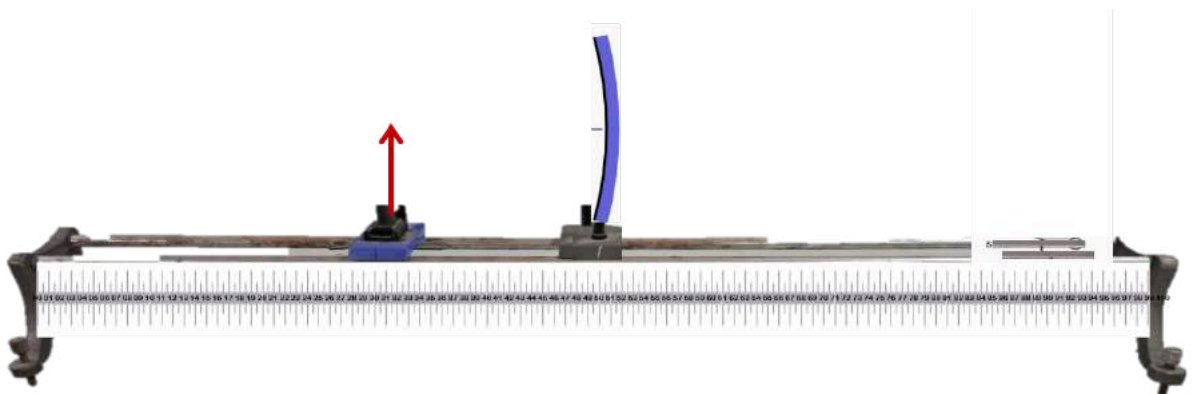
**SUBJECT: PHYSICS**

**1. Read the text carefully and answer the following questions:**

One day Utsav and his friends wanted to verify the mirror and lens formula which they learnt in their class. They were performing an experiment with optical bench. In their experiment, a convex lens of focal length of **15 cm** is placed at **50 cm** on an optical bench as shown in figure. An arrow shaped object of height **8 cm**



is placed at **30 cm** mark on the same bench. One of his friends, Anubhab, hold a screen at **94 cm** on bench to get the real image. But they got the image blurred. By keeping the lens and the object fixed, they moved the screen and ultimately got a sharp, clear and inverted image of arrow on screen. Then they noted the position of image and measured the height of image. Thereafter, they obtained the image distance from lens formula and verified the experimental result with the calculated value.



After that they replaced the lens with a concave mirror of focal length **12 cm**. Again, Anubhab got the exact position of screen for sharp image after several trial. They used mirror formula to obtain image distance to substantiate the experimental data.

- (a) When they got clear and sharp image formed by lens, the screen was placed at
- (i) 90 cm                      (ii) 80 cm                      (iii) 70 cm                      (iv) 60 cm

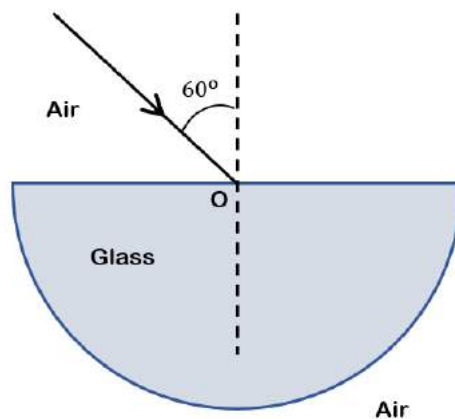
- (b) The height of the image formed by lens is  
 (i) 8 cm                      (ii) 12 cm                      (iii) 16 cm                      (iv) 24 cm
- (c) When they got clear and sharp image formed by mirror, the screen was placed at  
 (i) 10 cm                      (ii) 20 cm                      (iii) 30 cm                      (iv) 40 cm
- (d) The height of the image formed by the mirror is  
 (i) 8 cm                      (ii) 12 cm                      (iii) 16 cm                      (iv) 24 cm

2. Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true and R is the correct explanation of A.  
 (b) Both A and R are true but R is not the correct explanation of A.  
 (c) A is true but R is false.  
 (d) A is false but R is true.

- i. **Assertion(A):** A person cannot see his image in a concave mirror, unless, he is standing beyond the centre of curvature of the mirror.  
**Reason (R):** In a concave mirror, image formed is real provided the object is situated beyond its focus.
- ii. **Assertion(A):** Power of a parallel glass slab is zero.  
**Reason (R):** The ray passing through a parallel glass slab doesn't undergo any angular bending after emergence.

3. A ray of light is passing through a semicircular glass slab of refractive index  $\sqrt{3}$  as depicted in the following figure.



- i. Determine the angle of refraction while the ray incidents at the centre of semicircular slab (point O) as shown in figure.
- ii. Draw the complete the ray diagram as the ray refracting again from glass to air after entering into glass slab.
- iii. If we consider speed of light in air is  $3 \times 10^8 \frac{m}{s}$ . Estimate the speed of light in this glass slab.

## Section -B

### Subject: Chemistry

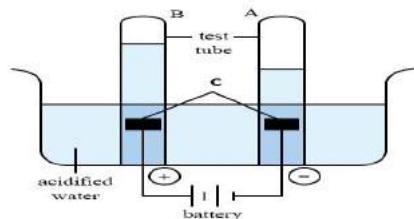
Following questions consist of two statements – Assertion (A) and Reason (R).

Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

- Q1. **Assertion (A):** Lead nitrate on thermal decomposition gives lead oxide, brown coloured nitrogen dioxide and oxygen gas. 1  
**Reason (R):** Lead nitrate reacts with potassium iodide to form yellow ppt. of lead iodide and the reaction is double displacement as well as precipitation reaction.
- Q2. **Assertion (A) :** In a reaction of copper with oxygen, copper serves as a reducing agent. 1  
**Reason (R) :** The substance which gains oxygen in a chemical reaction acts as a reducing agent.
- Q3. **Assertion (A) :** Slaking of lime is an exothermic and combination reaction. 1  
**Reason (R) :** Quick lime reacts with water to produce slaked lime.  
**Choose the correct option:** 1
- Q4. A dilute ferrous sulphate solution was gradually added to the beaker containing acidified potassium permanganate solution. 1  
The light purple colour of the solution fades and finally disappears.  
Which of the following is the correct explanation for the observation?  
(a)  $\text{KMnO}_4$  is an oxidizing agent, and it oxidises  $\text{FeSO}_4$ .  
(b)  $\text{FeSO}_4$  acts as an oxidising agent and oxidises  $\text{KMnO}_4$ .  
(c) The colour disappears due to dilution; no reaction is involved.  
(d)  $\text{KMnO}_4$  is an unstable compound and decomposes in the presence of  $\text{FeSO}_4$  to a colourless compound.
- Q5. Substance 'X' is used in white-washing and is obtained by heating limestone in the absence of air. Identify 'X'. 1  
(a)  $\text{CaOCl}_2$   
(b)  $\text{Ca(OH)}_2$   
(c)  $\text{CaO}$   
(d)  $\text{CaCO}_3$

- Q6. 1



The given diagram displays a chemical reaction. Observe carefully and the following questions.

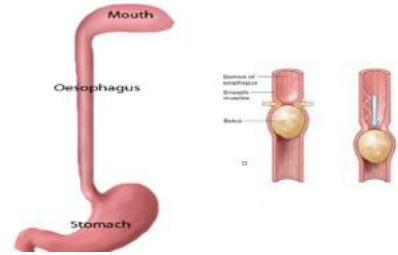
- a) Name the gas collected at the cathode and anode respectively.
- b) Why is the volume of one gas collected at one electrode double than that at the other?
- c) How will you test the evolved gases

## Section – C

### Subject: Biology

#### I. Multiple choice questions

1. Identify the movement of food in food pipe from the given diagram.



- Translocation
- Transpiration
- Peristaltic movement
- Digestion

2. When a few drops of iodine solution are added to rice water, the solution turns blue-black in colour. This indicates that rice water contains:

- Fats
- Complex proteins
- Starch
- Simple proteins

3. Which of the following is not a function of the digestive system?

- Breaking down food into smaller molecules
- Absorbing nutrients into the bloodstream
- Transporting oxygen to the cells
- Removing waste products from the body

4. Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- Both A and R are true and R is the correct explanation of A.
- Both A and R are true but R is not the correct explanation of A.
- A is true but R is false.
- A is false but R is true.

i) Assertion (A): Rings of cartilage are present in the throat,

Reason (R) : These ensure that the air-passage does not collapse

ii) Assertion: The large intestine is the largest part of the alimentary canal.

Reason: Tiger has a shorter small intestine, than herbivores.

#### II. Read the passage carefully and answer the following questions

We need energy to perform various activities. This energy is derived from the catabolism of various components of food, e.g proteins, carbohydrates, fats, etc. Oxygen is required for catabolic processes and carbon dioxide is released in the process. So, the body requires a continuous exchange of gases, oxygen from the atmosphere is taken inside and carbon dioxide produced is given out. In human beings, respiratory pigment called haemoglobin present in RBCs has very high affinity for oxygen. In tissues, exchange of gases occurs between oxygenated blood and tissue cells.

1. People living at sea level have around 5 million RBCs per cubic millimetre of their blood whereas those living at an altitude of 5400 metres have around 8 million. This is because at high altitude

- people eat more nutritive food, therefore more RBCs are formed

- b) people get pollution-free air to breathe and more oxygen is available
- c) atmospheric  $O_2$  level is less and hence more RBCs are needed to absorb the required amount of  $O_2$  to survive
- d) there is more UV radiation which enhances RBC production.

2. Respiration is a process in which

- a) Energy is used up
- b) Energy is stored in the form of ADP
- c) Energy is released and stored in the form of ATP
- d) Energy is not released at all

3. Which one of the following statements is false about the trachea?

- a) Has C-shaped rings
- b) It is covered by epiglottis
- c) It splits into the right and left lungs
- d) None of the above

4. Which of the following is the correct equation for aerobic respiration?

- a)  $\text{Glucose} + \text{Oxygen} \rightarrow \text{Carbon dioxide} + \text{Water} + \text{Energy}$
- b)  $\text{Carbon dioxide} + \text{Water} + \text{Energy} \rightarrow \text{Glucose} + \text{Oxygen}$
- c)  $\text{Glucose} + \text{Carbon dioxide} \rightarrow \text{Water} + \text{Oxygen} + \text{Energy}$
- d)  $\text{Oxygen} + \text{Water} \rightarrow \text{Glucose} + \text{Carbon dioxide} + \text{Energy}$

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**SESSION:2024-25**

**Class: X**

**Subject: Social Science**

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Q.1. Which animals have been recently given full or partial legal protection against hunting and trade throughout India? 1

- a. The Indian elephant, Bengal Tiger , the vulture , and the snow leopard etc.
- b. The Indian elephant, Bengal Tiger , the great Indian Bustard and the Cheetah etc.
- c. The Indian elephant, Black buck , the great Indian bustard and the snow leopard etc.
- d. The Indian elephant, Bengal Tiger , the great Indian bustard and the snow leopard etc.

Q.2. Match the following column A with Column -B and choose the correct option. 1

Column -A (Name of traditional communities)	Column -B (worship and protect)
A. Mundas and Santhals of Chhotanagpur region	i. Chinkara ,Nilgai and peacock
B. Bishnoi villages in Rajasthan	ii. Tamarind and Mango trees
C. Tribals of Odisha and Bihar	iii. Mahua and Kadamba

- a. A – i ; B – ii ; C - iii
- b. A – iii ; B – i; C – ii
- c. A -ii ; B – i; C – iii
- d. A – iii ; B – ii ; C - i

Q.3. Satyagraha was 1

- a. pure soul force
- b. weapon of the weak
- c. physical force
- d. force of arms



Q.4. Which of the following statements is/ are true about the Dandi March of Mahatma Gandhi?

1

- a. Mahatma Gandhi marched over 240 miles with 78 of his trusted followers covering 10 miles a day
- b. On 6th April, Gandhiji ceremonially violated the Salt Law, manufacturing salt by boiling seawater
- c. It started on 11 March, 1930 and ended on 6 April, 1930
- d. All the these

Q.5. Arrange the following events in correct sequence.

1

- i. The relations between the Sinhala and Tamil communities strained over time.
- ii. The Sri Lankan Tamils launched parties and struggles for the recognition of Tamil as an official language, for regional autonomy and equality of opportunity in securing education and jobs.
- iii. In 1956, an Act was passed to recognize Sinhala as the only official language.
- iv. All the government measures gradually increased the feeling of alienation among the Sri Lankan Tamils.

Options –

- a. ii-iv-i-iii
- b. iii-iv-i-ii
- c. iii-iv-ii-i
- d. i-ii-iv-iii

Q.6. Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R). Read the statements and choose the correct answer using the code given below.

1

*Assertion (A): The essence of federalism lies not in the institutional or constitutional structure but in the society itself.*

*Reason (R): Coalition governments are the most suitable form of governments in a heterogeneous society.*

- a. Both (A) and (R) are true and (R) is the correct explanation of (A).
- b. Both (A) and (R) are true, but (R) is not the correct explanation of (A).
- c. (A) is true, but (R) is false.
- d. (A) is false, but (R) is true.

Q.7. The total number of children attending school as a percentage of total number of children in the same age group is called

1

- a. Net attendance ratio
- b. Literacy rate
- c. Gross enrolment ratio
- d. Level of education

Q.8. Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R). Read the statements and choose the correct answer using the code given below.

1

*Assertion (A): Kerala has low infant mortality rate.*

*Reason (R): It has adequate provision of basic health and educational facilities.*

- a. Both (A) and (R) are true and (R) is the correct explanation of (A).
- b. Both (A) and (R) are true, but (R) is not the correct explanation of (A).
- c. (A) is true, but (R) is false.
- d. (A) is false, but (R) is true.

Q.9. “The conservation projects are now focussing on biodiversity rather than on a few of its components.” – Justify with proper examples. 3

Q.10. ‘The Plantation workers in Assam had their own understanding of Mahatma Gandhi and the notion of Swaraj’- Support the statement with arguments. 3

Q.11. “The creation of linguistic states was the first and the major test of democratic politics in our country.” Justify the statement. 3

Q.12. “Although the level of income is an important indicator of development, it is an inadequate measure of the level of development.” Justify the statement. 3

**ACTIVITY:-**

Explore the dynamic timeline of India's nationalist movement from the early struggles for independence to the transformative leaders and pivotal events that shaped the nation.

(Do in Chart Paper)