



ARMY PUBLIC SCHOOL RATNUCHAK
MULTIPLE ASSESSMENT
SESSION 2022-23
CLASS VI

ENGLISH

Q1. Choose the correct verb from those in brackets: (10 M)

- a. The earth _____ round the sun. (move, moves, moved)
- b. My friends _____ the film yesterday. (see, saw, have seen)
- c. It started to rain while we _____ tennis. (are playing, had played, were playing)
- d. I _____ English for five years. (have been studying, study, am studying)
- e. The train _____ before we reach the station. (arrives, will have arrived, had arrived)
- f. Don't disturb me. I _____ my work. (do, did, am doing)
- g. Fortune _____ the brave. (is favouring, will favour, favours)
- h. I _____ the letter before you arrived. (had written, wrote, will write)
- i. He _____ us next week. (will have met, will have been meeting, will be meeting)
- j. Perhaps we _____ Delhi next month. (visit, will visit, visited)

Q2. Underline the adjective and mention the type. (05 M)

	Adjective	Type
1. The cricketers had enough practice.	_____	_____
2. You can sit on the back seat.	_____	_____
3. The Indian Hockey team is in form.	_____	_____
4. We drank all the juice.	_____	_____
5. Many friends helped him.	_____	_____

Q3. Read the telephonic conversation between Rohit and Vishal. Vishal is going for his tuition class, so he leaves a message for Manav. Write his message in not more than 50 words. (05 M)

Rohit: Hello! Could I speak to Manav?

Vishal: He is not at home. May I know who is on the line?

Rohit: I am Rohit, your neighbour.

Vishal: Rohit, I am Manav's elder brother, Vishal. How are you?

Rohit: I am fine. Could you take my message for him?

Vishal: Yes sure.

Rohit: Tell him that I need my social studies book as soon as possible that he took yesterday. I have to make a school project. Also tell him to give me guidance for the project when he comes back.

Vishal: Ok, I will convey your message.

Rohit: Thank you, Bye.

Q4. You are Kiran, school captain of Oxford High School, Bahadurgarh. Write a notice informing the students about a Poem recitation competition to be held on 25th January 2023. (05 M)

Q5. Write a letter to your friend telling him/her how you celebrated the new year. (05 M)

HINDI

1. आप जानते हो कि दो पत्थरों को रगड़कर आदि मानव ने आग की खोज की थी । उस युग में पत्थरों का और क्या -क्या उपयोग होता था ? 5
2. क्या लोकगीत और नृत्य सिर्फ गाँव और कबीलों गाए जाते हैं ? शहरों के कौन से लोकगीत कौन से हो सकते हैं ? इस पर विचार करके लिखो । 5
3. गांधी जी इतना पैदल क्यों चलते थे ? पैदल चलने के क्या लाभ हैं ? लिखो 5
4. हम अपनी पाँच इन्द्रियों में से आँखों का इस्तेमाल सबसे ज्यादा करते हैं । ऐसी चीजों के अहसासों की तालिका बनाओ जो तुम बाकी चार इन्द्रियों से महसूस करते हो - सुनकर, चखकर ,सँघकर , छूकर- 10

MATHEMATICS

Q1. Rahul bought 4 kg 90g apples, 2 kg 60g grapes and 5kg 300g mangoes. Find the total weight of all the fruits he brought.

Q2. Rani has Rs 18.50. She bought one ice cream for Rs 11.75. How much money does she have now?

Q3. Tina had 20m 5cm long cloth. She cut 4m 50cm length of cloth from this for making curtain. How much length of cloth is left with her?

Q4. Ruby bought a watermelon weighing 5 kg 300g. Out of which she gave 2kg 680g to her neighbour. What is the weight of the watermelon left with Ruby?

Q5. 5kg 5g is equal to (a) 5.5 kg (b) 5.05kg (c) 5.005 kg (d) 5.0005 kg

Q6. In a school, 36 students of Class VI were asked about the number of their family members. Their answers were recorded as follows:

4, 6, 5, 3, 7, 8, 4, 6, 9, 5, 7, 5, 5, 6, 4, 5, 7, 8, 3, 4, 5, 4, 5, 5, 6, 8, 7, 4, 3, 6, 5, 4, 7, 5, 6, 4

(i) Construct frequency distribution table for the above data.

(ii) What is the number of families having 4 members or less members?

(iii) What is the number of families having 7 members or more members?

Q7. Number of persons in various age groups in a town is given in the following table.






Age group (in years)	1-14	15-29	30-44	45-59	60-74	75 and above
Number of persons	2 lakhs	1 lakh 60 thousand	1 lakh 20 thousand	1 lakh 20 thousand	80 thousand	40 thousand

Draw a bar graph to represent the above information and answer the following questions. (take 1 unit length = 20 thousands)

(a) Which two age groups have the same population?

(b) All persons in the age group of 60 and above are called senior citizens. How many senior citizens are there in the town?

Q8. Following pictograph shows the number of tractors in five villages.

Village	Number of tractors
Village A	 6
Village B	 5
Village C	 8
Village D	 3
Village E	 6

Observe the pictograph and answer the following questions.

(i) Which village has the minimum number of tractors?

(ii) Which village has the maximum number of tractors?

(iii) How many more tractors village C has as compared to village B?

(iv) What is the total number of tractors in all the five villages?

Q9. A piece of string is 30cm long? What will be the length of each side if the string is used to form:

(i) A square? (ii) an equilateral triangle (iii) a regular hexagon?

Q10. Find the cost of fencing a rectangular park of length 225m and breath 115m at the rate of Rs 13 per metre.

Q11. Meera went to a rectangular park 140m long and 90m wide. She took 5 complete rounds on its boundary. What is the distance covered by her?

Q12. Pinky runs 8 times around a rectangular park with length 80m and breadth 55m while Pankaj runs 7 times around a square park of side 75m. Who covers more distance and by how much?

Q13 Four square flower beds of side 1m 50cm are dug on a rectangular piece of land 8m long and 6m 50cm wide. What is the area of the remaining part of land?

Q14 How many tiles whose length and breadth are 12m and 5cm respectively will be needed to cover a rectangular region whose length and breadth are respectively:

(i) 70cm and 36cm (ii) 144cm and 1 m

Q15. The area of a rectangular plot is 340 sq. m. If its breadth is 17m, find its length and the perimeter.

SCIENCE

ANSWER THE FOLLOWING QUESTIONS:

(TO BE DONE IN YOUR SCIENCE CLASS NOTEBOOK)

1. What are luminous objects ? Give two examples. (2)
2. Define opaque objects and give two examples. ? (2)
3. What is an obstacle? (2)
4. Mention the conditions in order to see a shadow?
(2)
5. What is meant by Reflection? (2)
6. What is umbra and penumbra ? (2)
7. Why is the image formed by a pinhole camera inverted ? (2)
8. What is difference between image and shadow ? (3)
9. Classifying the following into transparent, opaque and translucent objects:
Wax, spectacles, a heap of salt, a stone, dense smoke, wood, skin, balloon, rubber, membrane of a
tabla,, blood and milk. (3)
10. What is a shadow? How is it formed? How does the colour of an opaque object affect the colour of the
shadow? (5)

SOCIAL SCIENCE

LEARN AND WRITE EACH QUESTION

Q1. Define Empire and Province?

Q2. What were the problems that Ashoka wanted to solve by introducing Dhamma?

Q3. Write few lines on Ashoka?

Q4. Name the strait between India and Sri Lanka?

Q5. Name the major continents of the Earth?

Q6. Name the different layers of atmosphere?

Q7. Define the following terms:

- a) Biosphere
- b) Lithosphere
- c) Atmosphere
- d) Hydrosphere

Q8. Name the major physical divisions of India?

Q9. Name the delta formed by the Ganga and Brahmaputra.

Q10. Why do a large number of people live in the Northern plains?

COMPUTER

Fill in the blanks

1. _____ is a time management app develop by google
2. _____ search engine uses crawler based technology.
3. After finishing our work in google drive, we must _____ form it.
4. For _____ connection, we use crawler-based technology.

Define the following

1. Google pixel
2. SaaS
3. Google play
4. PaaS

Differentiate between the following

1. Google chrome and Google chrome os
2. Dialup connection and Broadband connection



ARMY PUBLIC SCHOOL RATNUCHAK
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CLASS VII

ENGLISH

Q1) Read the following sentences and identify the type of sentence. 5M

1. Please shut the windows and doors.
2. Do you like chocolate pastries?
3. My name is Astrid Gracy.
4. Where are you going?
5. Such a beautiful place!

Q2) Identify the adjectives in the following sentences and state their kind. 5M

1. Some birds are colourful.
2. These are my pets.
3. Which movie did you watch yesterday?
4. We haven't got enough water.
5. Those eggs are rotten.

Q3) Given below is a passage that has five blanks. Every blank has been numbered and below the passage are printed with four options each. Choose the appropriate option that suits the blank best. 5M

It was Ruhi's birthday yesterday. We went to the party. She was arrayed in a (1) beautiful dress. The hall was decorated (2) with beautiful flowers and balloons. Her parents welcomed everyone (3) These were cold- drinks, chocolates to enjoy. Children danced (4) on the tunes of various songs. Adults also enjoyed themselves. Everyone took delight in having the lavish dinner. Ruhi accepted the gifts quite (5)

1. (a) fair
(b) very
(c) extreme
(d) big
2. (a) magnificently
(b) acutely
(c) wisely
(d) badly

3. (a) largely
(b) rightly
(c) definitely
(d) heartily
4. (a) beautiful
(b) merrily
(c) properly
(d) courageously
5. (a) humbly
(b) sweetness
(c) however
(d) simply

Q4) Fill in the following blanks with correct the Present Continuous Tense of the verbs given in brackets :

5M

1. Look ! the sun (rise)
2. Why you so fast ? (run)
3. The children in the park. (play)
4. Mohini a novel now. (read)
5. Water from the running tap. (flow)

Q5) You are the Cultural Secretary of your school. You have been asked to inform students of Classes VI to VIII about an Inter School Dramatics Competition. Draft a notice in about 50 words to be put up on the school notice board, with all necessary details.

5M

HINDI

- 1 . शहर, कस्बे में कुछ ऐसी जगहें होती हैं जो अपने किसी खास व्यंजन के लिए जानी जाती हैं। आप अपने व कस्बे के व्यंजनों की सूची बनाकर लिखिए। 10
2. कृष्ण को 'गिरधर' क्यों कहा जाता है? इसके पीछे कौन सी कथा है? पता कीजिए और कक्षा में बताइए। मीरा जी की कृष्ण के प्रति भक्ति पर अपने विचार लिखिए। 10
3. वीर-कुँवर सिंह का पढ़ने के साथ-साथ कुश्ती और घुड़सवारी में अधिक मन लगता था। आपको पढ़ने के अलावा और किन-किन गतिविधियों या कामों में खूब मज़ा आता है? लिखिए? 5

MATHEMATICS

Q1. What per cent of 40 kg is 440 g?

Q2. Convert each of the following into the decimal form:

(a) 25.2%

(b) 0.15%

(c) 25%

Q3. A machine costs ₹ 7500. Its value decreases by 5% every year due to usage. What will be its price after one year?

Q4. What sum of money lent out at 12 per cent p.a. simple interest would produce ₹ 9000 as interest in 2 years?

Q5. Rashmi obtains 480 marks out of 600. Rajan obtains 560 marks out of 700. Whose performance is better?

Q6. Reduce the following rational numbers in standard form.

(i) $-\frac{35}{15}$

(ii) $-\frac{36}{-216}$

Q7. Subtract:

a) $-\frac{5}{6}$ from $-\frac{7}{8}$

b) $2\frac{1}{5}$ from $-3\frac{1}{6}$

Q8. If the product of two rational numbers is $-\frac{9}{16}$ and one of them is $-\frac{4}{15}$, find the other numbers?

Q9. Subtract the sum of $-\frac{5}{6}$ and $-1\frac{3}{5}$ from the sum $2\frac{2}{3}$ and $-6\frac{2}{5}$.

Q10. Simplify:

$$\left(\frac{3}{7} \times -\frac{5}{8}\right) \div \left(\frac{1}{3} \times \frac{5}{6}\right) + \left(-\frac{1}{2} - \frac{1}{5}\right)$$

Q11. Find the value of:

(i) $(-1)^{1000}$

(ii) $(1)^{250}$

(iii) $(-1)^{121}$

(iv) $(10000)^0$

Q12. Express the following in exponential form:

(i) $5 \times 5 \times 5 \times 5 \times 5$

(ii) $4 \times 4 \times 4 \times 5 \times 5 \times 5$

(iii) $(-1) \times (-1) \times (-1) \times (-1) \times (-1)$

(iv) $a \times a \times a \times b \times c \times c \times c \times d \times d$

Q13. Simplify the following and write in exponential form:

(i) $(5^2)^3$

(ii) $(2^3)^3$

(iii) $(a^b)^c$

(iv) $[(5^2)^2]$

Q14. Express each of the following as a product of prime factors in the exponential form:

(i) 729×125

(ii) 384×147

Q15. Write the following in expanded form:

(i) 70,824

(ii) 1,69,835

SCIENCE

ANSWER THE FOLLOWING QUESTIONS:

(TO BE DONE IN YOUR SCIENCE CLASS NOTEBOOK)

1. Name two chemicals used to disinfect water. (2)
2. How does reservoir of dam helps to manage water? (2)
3. How planting trees can help ground water conservation? (2)
4. Do you think water is cleaned naturally? Comment. (2)
5. Sewage also contains some nutrients. Explain (2)
6. Why Eucalyptus trees are planted along sewage ponds? (2)
7. Think and suggest some ways to minimize waste and pollutants at their source, taking your home as an example. (2)
8. Make a list of the products obtained from some industries and used in our daily life. Discuss how the growing industrial activity is responsible for depletion of water table? (3)
9. What is sewage? Explain why it is harmful to discharge untreated sewage into rivers or seas? (3)
10. What is groundwater? What are the sources of water which are fed by groundwater? (5)

SOCIAL SCIENCE

- Q1. What is hagiography?
- Q2. What are Namghar?
- Q3. What were the major beliefs and practices of the Sufis?
- Q4. What were the major teachings of Baba Guru Nanak?
- Q5. Describe the beliefs and practices of Nagapanthis, Siddhas, and Yogis.
- Q6. What is Precipitation?
- Q7. What is water cycle?
- Q8. What are Tides and how are they caused?
- Q9. Ocean water is salty. Give reason.
- Q10. What do you understand by the term Censorship?
- Q11. What do you mean by Mass media?
- Q12. In what ways media plays an important role in a Democracy?

COMPUTER

Fill in the blanks

1. _____ refer to someone who accesses a computer or network illegally.
2. Every time we surf the internet, we leave a trail behind known as _____.
3. Internal links can be either _____ or _____.
4. To add background color to the web page, _____ attribute is used in body tag.

Define the following

1. Cyber bullying
2. Cell spacing
3. Operator
4. HTML5

Differentiate between the following

1. Hacker and Cracker
2. Container tag and Empty tag



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CLASS VIII

ENGLISH

Q1. Read the given passage and answer the questions that follow: (1x5=5)

After his mother sends him to bed without dinner, Max falls asleep and his room immediately transforms into a moonlit forest surrounded by a vast ocean. There is a boat waiting for him, and Max is excited for the chance to travel to a faraway land and escape his mother's strict rules.

After sailing for quite some time, Max finally finds himself in a place where the wild things are. The **wild things** are big and ferocious but ultimately tame creatures. He is greeted by this group of creatures who try to scare him off by roaring, stomping, and showing their teeth and claws, but Max doesn't even flinch. Instead, he stares into their eyes without blinking. The wild things realize that Max is the most wild of all of them, and they make him king of the wild things.

With Max in charge, the wild things are commanded to 'let the wild rumpus start!' They spend days on end shouting, stomping, dancing, and swinging through the trees. When Max has finally had enough, he puts an end to the craziness by sending his subjects to bed without their dinner, just as his mother did to him.

At that point, Max starts to miss his mom. He realizes that being in charge is hard work, and he understands why his mother sent him to bed. Then, he smells something delicious, perhaps the dinner that he wasn't allowed to eat, waiting for him in his bedroom. Max decides that it is time to leave the wild things and sail back to the place where he is loved most of all.

- i) What happened to Max's room when he falls asleep?
- ii) Why was Max excited?
- iii) Where Max finally finds himself?
- iv) Find the synonym of
a) change (para 1)
b) fright (para 2)
- v) What Max realizes at the end?

Q2. Read the given passage and answer the questions that follow:

The Brahmin's Dream

Once upon a time, there lived a poor brahmin without any friends or relatives. He was a miser and begged alms for a living. One day, he received a pot full of porridge by a generous person. He hanged the earthen pot from the wall and fell asleep staring at it. He drifted into deep sleep and dreamt that there was a famine, and that he exchanged his pot of porridge for a hundred gold coins.

He dreamt that he bought a pair of goats and cows with the money, and made more money by trading milk. He also dreamt that a rich merchant offered his daughter's hand in marriage and that he had a kid. He was relaxing at home when a group of kids would disturb him. Imagining that he was scaring them away with a stick, he picks up the nearby stick in his sleep and starts waving it around.

2. We each other for a long time.

a) knew

b) are knowing

c) have known

3. The teacher an interesting question in the class yesterday.

a) asks

b) has asked

c) asked

4. As you can, I a real London fan already.

a) see, have become

b) saw, had become

c) see, become

HINDI

1 साइकिल आंदोलन' से पुडुकोट्टई की महिलाओं के जीवन में कौन-कौन से बदलाव आए हैं? 5

2 किसी ऐसी घटना के विषय में लिखिए जब किसी ने आपकी शिकायत की हो और फिर आपके किसी अभिभावक (माता-पिता, बड़ा भाई-बहिन इत्यादि) ने आपसे उत्तर माँगा हो | 10

3. उपसर्ग - 'प्र' 'कु' उपसर्ग का प्रयोग करके 5-5 शब्द बनाओ ।

प्रत्यय - 'ता' 'वाला' 'इक' प्रत्यय लगाकर 5-5 बनाओ ।10

MATHEMATICS

- Q1. A shopkeeper purchased 200 bulbs for Rs 10 each. However 5 bulbs were fused and had to be thrown away. The remaining were sold at Rs 12 each. Find the gain or loss %.
- Q2. Meenu bought two fans for Rs 1200 each. She sold one at a loss of 5% and the other at a profit of 10%. Find the selling price of each. Also find out the total profit or loss.
- Q3. The population of a city was 20,000 in the year 1997. It increased at the rate of 5% p.a. Find the population at the end of the year 2000.
- Q4. A TV was bought at a price of Rs 21,000. After one year the value of the TV was depreciated by 5% (Depreciation means reduction of value due to use and age of the item). Find the value of the TV after one year.
- Q5. Waheeda bought an air cooler for Rs 3300 including a tax of 10%. Find the price of the air cooler before VAT was added.
- Q6. Find m so that $(-3)^{m+1} \times (-3)^5 = (-3)^7$
- Q7. Solve the following: $(81)^{-4} \div (729)^{2-x} = 9^{4x}$
- Q8. Simplify: $\frac{4^{-3} \times a^{-5} \times b^{-4}}{4^{-5} \times a^{-8} \times b^3}$.
- Q9. Simplify $\frac{49 \times t^{-5}}{7^{-3} \times 10 \times t^{-9}}$ ($t \neq 0$)
- Q10. In a library, there are 6 books each of thickness 30mm and paper sheets each of thickness 0.08mm. What is the total thickness?
- Q11. An electric pole, 14 metres high, casts a shadow of 10 metres. Find the height of a tree that casts a shadow of 15 metres under similar conditions.
- Q12. A train is moving at a uniform speed of 75 km/hour.
(i) How far will it travel in 20 minutes? (ii) Find the time required to cover a distance of 250 km.
- Q13. 6 pipes are required to fill a tank in 1 hour 20 minutes. How long will it take if only 5 pipes of the same type are used?
- Q14. There are 100 students in a hostel. Food provision for them is for 20 days. How long will these provisions last, if 25 more students join the group?
- Q15. If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours?

SCIENCE

ANSWER THE FOLLOWING QUESTIONS:

(TO BE DONE IN YOUR SCIENCE CLASS NOTEBOOK)

Q1. Fill in the blanks: 5 marks

1. The force of friction always acts in the _____ direction to the applied force.
2. _____ comes into play when we try to move an object at rest.
3. _____ comes into play when an object is sliding over the object.
4. Sliding friction is always _____ than static friction.
5. Friction can be _____ by using lubricants.

Q2. Multiple Choice Questions: 5 marks

1. A ball rolling on the ground slows down and finally stops because
 - (a) force
 - (b) less force applied
 - (c) friction
 - (d) none of the above
2. A boy rolls a rubber ball on a wooden surface. The ball travels a short distance before coming to rest. To make the same ball travel longer distance before coming to rest, he may
 - (a) spread a carpet on the wooden surface.
 - (b) cover the ball with a piece of cloth.
 - (c) sprinkle talcum powder on the wooden surface.
 - (d) sprinkle sand on the wooden surface.
3. Which of the following is an example of a non-contact force?
 - (a) The force exerted by us to lift a bucket
 - (b) push a stationary car
 - (c) The force exerted by magnets
 - (d) Force due to friction
4. The coefficient of friction between the two surfaces depends on
 - (a) Nature of the surface in contact
 - (b) Mass of the two bodies in contact
 - (c) Applied force
 - (d) Normal contact force between the surface
5. Which one of the following forces is a contact force?
 - (a) force of gravity

- (b) magnetic force
- (c) force of friction
- (d) electrostatic force

Q3. True and false: 5 marks

- a. Friction opposes the relative motion between two surfaces in contact.
- b. Friction is a necessary evil.
- c. Irregularities between two surface interlocks to produce friction
- d. Friction depends on the nature of the surface in contact
- e. Sliding friction is more than static friction

Q4. Answer the following: 2 marks each

1. Write two methods to reduce friction.
2. Why the soles of shoes and tyres of cars, truck etc. are grooved.
3. What is the cause of friction?
4. How fluid friction can be minimized.
5. Why does a man slip when he steps on a banana peel thrown on the road?

SOCIAL SCIENCE

Short Questions

1. What is life expectancy?
2. What is called the natural growth rate?
3. What was Civil Rights Act that was introduced in USA in 1964?
4. What does the Hindu Succession Amendment Act 2005 say?
5. Who were the leaders from Bihar who joined the rebellion?
6. What did the new act in 1858 mention?

Long questions

7. Explain the various roles played by the government.
8. Define the following:
 - a) Birthrate
 - b) Death rate
 - c) Migrations
9. What reforms were made by the British in Indian society? How did Indians see these laws?

Map Work

10. On an outline map of India represent the following centres of Revolts?
 - (i) Meerut
 - (ii) Delhi
 - (iii) Bihar
 - (iv) Kanpur
 - (v) Jhansi

COMPUTER

Differentiate between the following

1. B2B and B2C
2. Native app and Web app

Define the following

1. COD
2. Password box
3. Shopping cart
4. Education app

Fill in the blanks

1. In the web browser, look for a _____ icon for security concern.
2. The e-commerce that takes place using mobile device is called _____.
3. _____ style sheet is used to apply a unique style to a single HTML element.
4. After creating we can _____ our app in android device or in emulator.

Q2. Write a letter to the editor of a national newspaper suggesting ways for reducing workplace harassment in public and private organization. 5M

Q3. These days more and more children prefer processed and fast foods. This is leading to obesity and other diseases. Study the information given below regarding the advantages and disadvantage of natural and processed foods: 7M

Natural foods

Processed foods

Advantages

- 1. fresh and tasty.
- 2. healthy/nutritious
- 3. cheap.

- 1. can last long
- 2. packed in bottles/cans
- 3. may be tasty

Disadvantages

- 1. perishable.
- 2. have to buy daily

- 1. contain chemicals and additives.
- 2. side effects
- 3. may cause diseases

Using the information given above, write a comparison of the two kinds of food for your school magazine in 80 words. The description should include- 1. a comparison of the two types of foods 2. what should be the right choice, and 3. reasons for the choice.

Q4. Choose the most appropriate option from the ones given below to complete the following passage. 8M

Three years ago, fresh (a)..... of school, I (b) the intimidating task of choosing a career (c)college started. My uncle, (d) of the elders of the family, suggested (e) I do a summer job (f) a multinational company followed by a month of social service with an NGO. He said that (g) that I could (h)..... which career to choose.

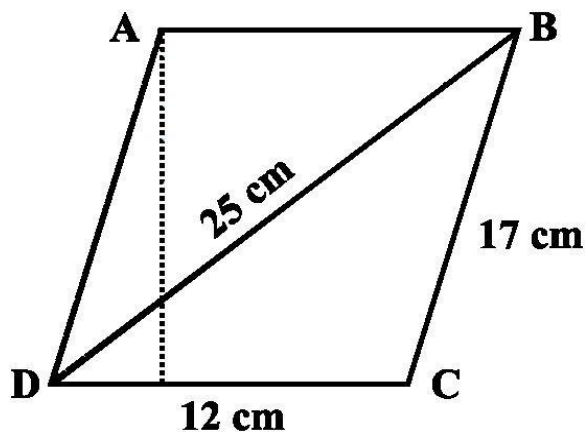
- a) (i) from (ii) out (iii) in (iv) when
- b) (i) in (ii) was (iii) have (iv) had
- c) (i) for (ii) after (iii) before (iv) as
- d) (i) are (ii) was (iii) one (iv) who
- e) (i) when (ii) that (iii) which (iv) as
- f) (i) in (ii) on (iii) for (iv) at
- g) (i) before (ii) then (iii) after (iv) in
- h) (i) made (ii) decision (iii) make (iv) decide

HINDI

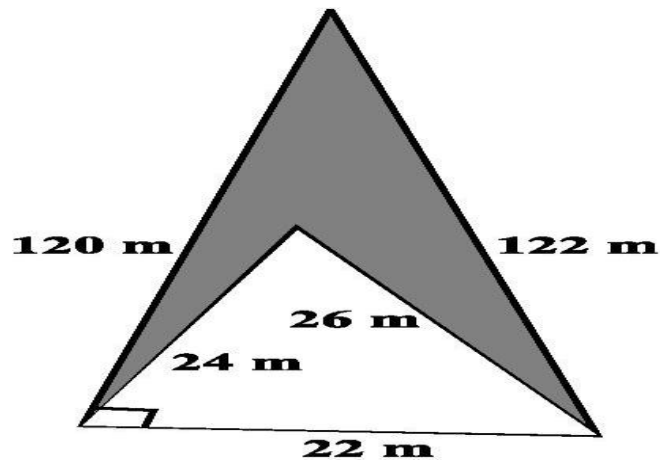
1. प्रकृति अपने विभिन्न क्रिया-कलापों से मनुष्य को प्रभावित करती है। 'गीत-अगीत' कविता के आधार पर स्पष्ट कीजिए। 5
2. देश को वैज्ञानिक दृष्टि और चिंतन प्रदान करने में सर चंद्रशेखर वेंकट रामन के महत्वपूर्ण योगदान पर प्रकाश डालिए। 10
3. लेखक को ऐसा क्यों लगा कि त्रिपुरा स्वच्छता के नाम पर उत्तर भारतीय गाँवों से अलग है? इससे आपको क्या प्रेरणा मिलती है? 10

MATHEMATICS

- 1) If each side of a triangle is doubled, then find the ratio of area of the new triangle thus formed and the given triangle.
- 2) ABCD is a parallelogram. If its diagonals are equal, then find the value of \sphericalangle ABC
- 3) From a point in the interior of an equilateral triangle, perpendiculars are drawn on the three sides. The lengths of the perpendiculars are 14 cm, 10 cm and 6 cm. Find the area of the triangle.
- 4) The perimeter of an isosceles triangle is 32 cm. The ratio of the equal side to its base is 3 : 2. Find the area of the triangle.
- 5) A field in the form of a parallelogram has sides 60 m and 40 m and one of its diagonals is 80 m long. Find the area of the parallelogram.
- 6) The perimeter of a triangular field is 420 m and its sides are in the ratio 6 : 7 : 8. Find the area of the triangular field.
- 7) The sides of a quadrilateral ABCD are 6 cm, 8 cm, 12 cm and 14 cm (taken in order) respectively, and the angle between the first two sides is a right angle. Find its area.
- 8) A rhombus shaped sheet with perimeter 40 cm and one diagonal 12 cm, is painted on both sides at the rate of Rs 5 per m^2 . Find the cost of painting.
- 9) Find the area of a parallelogram given in the below Figure. Also find the length of the altitude from vertex A on the side DC.



- 10) Find the area of a triangle two sides of which are 18 cm and 10 cm and the perimeter is 42 cm.
- 11) The sides of a triangular field are 41 m, 40 m and 9 m. Find the number of rose beds that can be prepared in the field, if each rose bed, on an average need 900 cm^2 space.
- 12) Calculate the area of the shaded region in



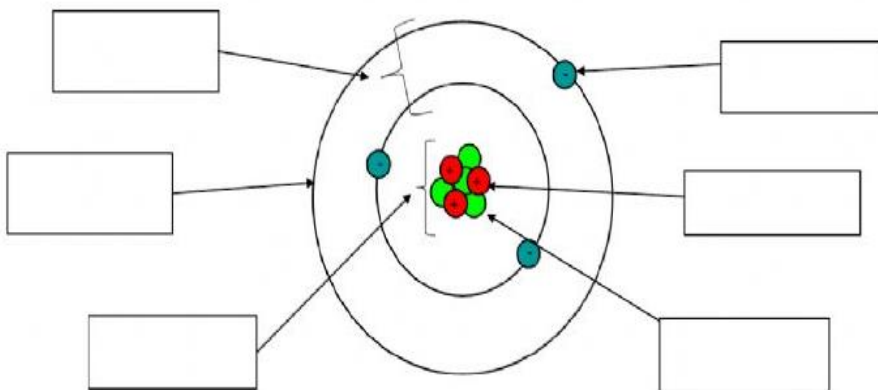
- 13) Find the cost of laying grass in a triangular field of sides 50 m, 65 m and 65 m at the rate of Rs 7 per m^2 .
- 14) The triangular side walls of a flyover have been used for advertisements. The sides of the walls are 13 m, 14 m and 15 m. The advertisements yield an earning of Rs 2000 per m^2 a year. A company hired one of its walls for 6 months. How much rent did it pay?
- 15) From a point in the interior of an equilateral triangle, perpendiculars are drawn on the three sides. The lengths of the perpendiculars are 14 cm, 10 cm and 6 cm. Find the area of the triangle.

(ii)

- (A)
(a) Catla
(b) Rohu
(c) Mrigal
(d) Fish farming

- (B)
(i) Bottom feeders
(ii) Surface feeders
(iii) Middle-zone feeders
(iv) Culture fishery

Q5. Redraw the figure and fill all the blanks:

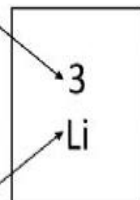


Your Guide to The Atom

Particle	Charge	Location in atom
	-1	
	0	
		Nucleus

The Atomic Number – which is the number of _____.
This number is also equal to the number of _____.

Atomic Symbol: _____



The number of _____ determines the type of element.

SOCIAL SCIENCE

- Q1. Name the countries against which Germany fought the First World War.
- Q2. Discuss why Nazism became popular in Germany by 1930.
- Q3. What are the peculiar features of Nazi thinking?
- Q4. Describe the problems faced by Weimar Republic.
- Q5. What do you mean by Coriolis force?
- Q6. "India's climate has characteristics of tropical as well as sub-tropical climate" Discuss.
- Q7. What is October heat?
- Q8. What are the major control of the climate? Explain.
- Q9. Explain in Brief:
- a) El-NINO
 - b) Burst of the Monsoon
 - c) Inter Tropical convergence zone.
- Q10. Who are Cabinet Ministers?
- Q11. 'India has an integrated judiciary'. What does this statement mean?
- Q12. Why are institutions essential in democratic government?
- Q13. How is Lok Sabha more powerful than Rajya Sabha?
- Q14. Describe the powers and functions of Prime Minister.
- Q15. Give brief description of the appointments made by the President of India.