Subject: English

SECTION A- READING

1.Read the following passage carefully. **(5 Marks)**

Man does not live by food alone. Water is vital to human health and fitness. Although it is not a nutrient as carbohydrates, fats, proteins, vitamins and minerals. It, in fact, is a key nutrient in as much as no life is possible without it. Whereas we can do for weeks without food, we cannot live without water longer than a couple of days. Water approximates 60 per cent of the body weight of human adults. The total amount of water in a man weighing 70 kilograms is approximately a little over 40 litres.

It is an excellent solvent – more substances are soluble in water than in any other liquid known so far. This makes it an ideal constituent of the body fluids which sustain life-supporting chemical reactions. It dissolves varied products of digestion and transports them to the rest of the body. Likewise, it dissolves diverse metabolic wastes and helps drain them out of the body. Besides, it performs a variety of functions some well-known and well understood while others not so well appreciated yet vital.

One of the important roles of water is to distribute/dissipate the body heat efficiently, thereby regulating the body's temperature. Water accomplishes this role ideally because it has thermal conductivity ensuring rapid heat transfer from one part to the other. Above all, water has a high specific heat, implying that it takes a lot of heat to raise the temperature of water and likewise much heat must be lost to lower its temperature.

Drinking a lot of water is an inexpensive way to stay healthy. Even excess of water is harmless. Water therapy drinking a litre or so the first thing in the morning is kidney friendly. The water regulation in the body is affected by the hypothalamus in two ways *first* by creating the sensation of thirst which makes us drink water and secondly by controlling the excretion of water and urine. If water regulation fails, medical emergency ensues.

1.1 On the basis of your reading of the above passage, answer the following questions carefully.

a. How is water a key nutrient? (1)
b. What is the quantity of water present in human adult's body? (1)
c. How is water an excellent solvent? Why is it called an ideal constituent for body fluids? (1)
d. How does water regulate the body temperature? (1)
e. Find a word from the passage which mean the same as: (½ x2=1)
  i. strengthen or support physically or mentally
  ii. absolutely necessary; essential

SECTION B- WRITING

Q2. You are Akash. You receive a call from your sister's friend Radha. She wants your sister to come to her house to complete her science notes in the evening. Write a message in not more than 50 words for your sister, as you need to leave for your cricket coaching immediately. **(2)**

Q3. Write a story based on the clues given below: (3)

Salt merchant ………….. had a donkey who carried heavy loads of salt on its back ………….. donkey had to cross a stream to transport the salt to other villages ………….. once the donkey slipped in water ………….. salt dissolved in water ………….. load became lighter ………….. donkey felt happy ………….. repeats the process of falling in water everyday to lessen the burden ………….. merchants suspects the donkey's evil intentions ………….. plans to teach it a lesson ………….. loads cotton on donkey's back ………….. as donkey falls in water cotton becomes heavy ………….. donkey repents his actions ………….. moral.

SECTION C- GRAMMAR

Q4. Fill in the blanks with suitable words. (¼ x8=2)

Lisa and Maddie (a) _____(be) really bored. Both the girls. (b)_____ (have) a ton of homework, but neither of them (c)_____ (want) to do it. Instead, they (d)_____ (decide) to head to the mall. When the girls (e)_____ (arrive) at the mall, they notice that some of the stores offer refreshments to their customers. Maddie f) _____(enjoy) a few treats, but many of the shoppers seem too busy to stop. After a little while, Lisa (g) _____(want) to check out Express, but Maddie is tired. Since they can't agree on what to do, they just (h) _____(go) home. They have homework to do.

Q5 Fill in the blanks with appropriate adverbs. (½ x4=2)
We are standing in front of the (a)_____beautiful town of Kolkata. The town was (b)_____built long ago. It stands (c)_____on Esplanade Row, near Assembly house. I have (d)_____seen such a beautiful building before.

Q6. Fill in the blanks with appropriate words. (¼x4=1)
    a) Breakfast _____ lunch is served to all guests.
    b) I have not seen you _____ the time you left the school.
    c) You must not leave the school _____ you finish your work.
    d) I make friends quite easily _____ my sister is very shy.

SECTION D- LITERATURE

Answer the following questions in 20-30 words. (2x2=4)
Q7. What type of characters did Jane introduce in her novels?
Q8. "Tending in ceaseless flow toward the track of the ship".
        i)What is referred to as ceaseless?
        ii) Name the poet and the poem of the above line.
Answer the following questions in about 80 words. (3x2=6)

Q9. Why was the narrator proud of himself? What irritated the narrator more than anything else?
Q10. Why were Jane's novels published under the name 'by a Lady'? Who was George Austen?

प्रश्न 1 उचित शब्दों द्वारा रिक्त स्थानों की पूर्ति कीजिए —   (2)

   1 हिंदी दिवस प्रतिवर्ष.........को मनाया जाता है।

   2 भाषा के दो रूप हैं.........और.........।

   3   भाषा का उद्देश्य विचारों का .... करना है।

   4 शब्दों के व्यवस्थित क्रम से .... बनते हैं।

प्रश्न 2   निम्नलिखित शब्दों का शब्द-संयोजन कीजिए —   (2)

   1 आ श् ई र् व् आ द् अ

   2 अ न् उ भ् अ व् अ

प्रश्न 3 लिपि किसे कहते है?उदाहरण सहित लिखिए—   (2)

प्रश्न 4 हिन्दी के किन्हीं चार महीनों के नाम लिखिए—   (2)

प्रश्न 5   निम्नलिखित शब्दों का वर्ण-विच्छेद कीजिए —   (2)

    1 क्षमा   2 कृपा   3 ज्ञानी   4 दुकानदार

प्रश्न 6   निम्नलिखित संख्याओं को शब्दो में लिखिए —   (2)

     16,   27,   19,   28

प्रश्न 7 निम्नलिखित मुहावरों का अर्थ लिखकर वाक्यों में प्रयोग कीजिए—   (2)

   1 अक्ल चरने जाना।

   2 आँखों में धूल झोंकना।

प्रश्न 8 निम्नलिखित लोकोक्तियों का अर्थ लिखकर वाक्यों में प्रयोग कीजिए—   (2)

   1 इस हाथ दे उस हाथ ले।

    3   आ बैल मुझे मार।

प्रश्न 9 मातृभाषा और राष्ट्रभाषा में क्या अंतर है?   (2)

प्रश्न 10 निम्नलिखित भाषाओं की लिपियाँ बताइए।   (2)

    संस्कृत , गुजराती ,अंग्रेजी , पंजाबी

Subject – Mathematics

Q1: Fill in the blanks with suitable sign ($<$, $>$ or $=$) :

(a) (-35) – (-43) …… -43-(-35)

(b) -58 + (-14)   …… -65 + 13   (2)

Q2: Using number line, find the following:

(a) -6 + 7   (b) 4 + (-8)   (2)

Q3: A man has ₹ 20,000 in his account in a bank. He withdraws ₹ 3000 per month for the first two months and deposits double of this amount in third month. What will be the balance in his account after 3 months?

(3)

Q4: A diver descends 20 feet in the water from the boat at the surface of a lake. He then rose 12 feet and descends another 18 feet. At this point what is his depth in water?   (3)

Q5: Compare the following fractions:

   (a) $\frac{4}{5}$ and $\frac{5}{6}$ (b) $\frac{3}{4}$ and $\frac{2}{5}$ (3)

Q6: A rectangular park is 30 metres long and 20 metres broad. A steel wire fence is put up all around it. Find the cost of putting the fence at the rate of ₹15 per metre.   (3)

Q7: Represent 1.3, 3.8 and 4.1 on the number line.   (3)

Q8: Find the ratio of the following in the simplest form:

(i) 75 paise to Rs 3

(ii) 3 m 5 cm to 35 cm

(iii) 48 min to 2 hours 40 min   (3)

Q9: (i) John withdrew ₹ 1175.75 from his bank account. Now he has ₹ 4450.25 left in his account. What was the original balance in his account before the withdrawal?   (2)

   (ii) The sum of three decimals is 450.63. What is the third decimal, if two of them are 126.53 and 95.54?   (2)

Q10: **Case Study based question:**

 In a village, every year on an average 107 children are born. In 2019, the population was 2025. It is also noticed that every year people die because of diseases and old age. Every year 20 people die because of old age and 5 persons per year die because of some diseases. Based on this information, answer the following questions: (1x4=4)

(i) What is the overall change in the population of the village every year?

(ii) What was the population of that village in 2018?

(iii) What will be the population of that village in 2025?

(iv) What is the difference between the population of the village in 2025 and in 2018?

Subject: Science

1. Name the pigment that gives green colour to the plants. Write its function in the process of photosynthesis. (1)
2. Write the word equation for the process of photosynthesis. (1)
3. Priya wiped the leaves of a plant with an oily cloth to remove all the dust and give it a shiny look. After a few days, the plant dried and was lifeless. Give reason. (2)
4. Differentiate between autotrophic and heterotrophic modes of nutrition. (2)
5. Unscramble the following to form terms related to modes of nutrition. (2)
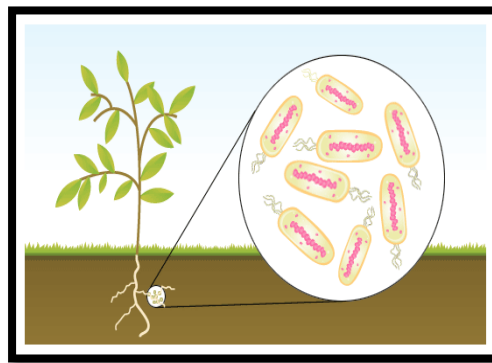
(i) RASPAEIT

(ii) ROPEHYTSAP

(iii) TOROPHAUT

(iv) SIBIOMSYS

6. Why are leaves called sites of photosynthesis? (3)
7. Identify the given plant. Name the organism that lives in its root nodules and explain its role. (3)

8. Write the type of food and mode of feeding of the following animals. (3)

S.no.	Name of animal	Kind of food	Mode of feeding
1.	Rat		
2.	Mosquito		
3.	Snake		

9. Wild animals like tiger, wolf, lion and leopard do not eat plants. Does this mean that they can survive without plants? Explain. (3)

10. What is photosynthesis? Draw a schematic diagram to explain the process of photosynthesis. (5)

Subject: Social Science

Q1. Why was Kannauj an important region and cause of struggle between different dynasties?   (2)

Q2. What do you understand by the term 'democracy'? Which was the first country to grant equal voting rights to all its citizens?   (2)

Q3. How was the first battle of Tarain different from the second battle of Tarain?   (2)

Q4. Why do you think the lithosphere is very important for the progress of human beings?   (2)

Q5. What do you mean by the term 'Rajput'? How did Rajputs explain their origin? Mention some of the important Rajput clans.   (3)

Q6. What are chronicles? List some important chronicles available for the study of the medieval period.

(3)

Q7. Distinguish between the sial and sima layers in the crust.   (3)

Q8. Write a note on elections.

Q9. The structure of the earth is divided into concentric layers. Elaborate with the help of a diagram.

(5)

Q10. Project Work

   Find out the form of government in seven neighbouring countries of India.

      Afghanistan, Pakistan, Myanmar, Bangladesh, China, Bhutan, and Nepal.

   (Also mark them on the map and write who is the head of the state at present.)   (5)

प्रश्न 1 अधोलिखिते संवादे मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयत -

(½ x10= 5)

मञ्जूषा – कक्षा अध्यापिकायाः, शिक्षकः , श्रीमती शोभा , अष्टमी , कक्षायाम् ,
उत्तमः , पिता , पठामि , विद्यालयस्य   , बाल निकेतन ।

मयंकः –   तव [1]------ किम् नाम अस्ति ?

दिपेशः -   मम विद्यालयस्य नाम [2]------ अस्ति।

मयंकः -   तव [3]------ किम् नाम अस्ति ?

दिपेशः   मम कक्षा अध्यापिकायाः नाम [4]------ अस्ति।

मयंकः -   तव [5]------ का अस्ति ?

दिपेशः -   मम पिता [6]------ अस्ति।

मयंकः - तव भ्राता कस्यां [7]------ पठति ?

दिपेशः - मम भ्राता [8]------ कक्षायाम् पठति ।

मयंकः - शोभनम्! अहम् अपि अष्टमी कक्षायाम् [9]------ ।

दिपेशः - इदम् तु अति [10]------ अस्ति ।

प्रश्न 2 मञ्जूषायां प्रदत्तं पदानाम् सहायतया मित्रं प्रति पत्रम् लिखत ।   (½ x10= 5)

मञ्जूषा– आगमनस्य ,   ज्ञात्वा , माता , उपस्थितिः , चरणयोः , ज्येष्ठः ,
मासस्य ,   अस्माकम् , कुशलम् ,   मित्राणि

नवदिल्लीतः

तिथिः 10.06.2022

प्रिय मित्र मधुरः ,

सप्रेम नमोनमः ।

अत्र [1]------ तत्रास्तु।एतद् [2]------ भवान् अतीव प्रसन्नो भविष्यति यत्
मम [3]-- ---- भ्रातुः विवाहः अग्रिम [4]------ पञ्च तिथौ निश्चितः।भवतः
सपरिवारेण सह [5]------ अनिवार्या।अहम् भवतः [6]------ प्रतीक्षाम् करिष्यामि।
[7]------ अन्यानि अपि [8]------ सपरिवारेण अत्र आगमिष्यन्ति।गृहे [9]------
पित्रोः [10]------ मम प्रणामः।

तव प्रिय मित्रम्
नमिशः

प्रश्न 3 चित्रम् रचयित्वा केचन त्रयः वाहनानाम् नाम संस्कृते लिखत।   (1x3=3)

प्रश्न 4 चित्रम् रचयित्वा कश्चित् त्रीणि कक्षायाम् उपयोगी वस्तूनाम् नाम संस्कृते लिखत।
                                                                  (1x3=3)

प्रश्न 5 निम्नलिखित वाक्यानाम् संस्कृते अनुवादं लिखत।   (1x4=4)
   (1) माला जाती है।
   (2) वह पढ़ता है।
   (3) रवि छात्र है।
   (4) राधा खेलती है।

Subject: Computer Science

Lesson 1- Introduction to HTML
Lesson 2 – Creating web pages using HTML

1. Fill in the blanks.   **½*6=3**

a) HTML was developed by _____.

b) There are_____heading levels.

c) _____tag is used for inserting line breaks.

d) Lists that lie within another list is called _____.

e) The important software required to create web pages are _____, _____and _____.

f) There are _____ heading levels in HTML.

2. Expand the following.   **1*2=2**

a) HTML

b) WYSIWYG

3. Correct the following sentences.   **1*3=3**

a) Unordered lists use ● , ■ , ▲ and ○ as bullet marks.

b)
 can be used as a container tag.

c) We do not need to use closing tag with <LI>.

4. Answer the following questions.

a) What is HTML document?   **1**

b) Write the steps to view the source code of an HTML file in the web browser. **2**

c) Explain the two factors that we have to keep in mind while designing a website. **2**

d) Write the basic structure of an HTML document.   **2**