NOTE:-   These assignments are to be done in separate answer sheets and submitted to the subject teachers on the first day when the school reopens.

ENGLISH LANGUAGE

Q I. Read the following passage given below and answer the following questions:

Water is the most important element for the survival of man. We can go without food for a long time, but we cannot live without water even for a few days. Our human body is 60 to 70% water. Without water, we would be poisoned to death by waste products of air. Kidneys remove uric acid and urea chemical reactions in digestion metabolism. It carries nutrients and oxygen to the cells through the blood and helps to cool the body through perspiration.

 By not drinking enough water many people gain weight. It decreases digestive efficiency and organ functions. Proper water intake is the key to weight loss. If people who are trying to lose weight and do not drink enough water, the body cannot metabolise the fat.

 Minimum water intake for a healthy person is 30 ml per kg of body weight in one day. You need more water if you exercise a lot in hot climate. In the beginning, you may be running to the bathroom frequently. But with the passage of time, your bladder adjusts itself and you urinate less frequently but in larger amounts. So, from today start drinking more water than you usually consume.

i) On the basis of your reading, list in the advantages of drinking enough water.

ii) List the disadvantages of not drinking enough water.

iii) Find the words in the passage which means the same as:

  a) Essential
  b) Occurring at short intervals

iv) Write the importance of water in not more than 30 words.

Q.II Write a suitable message on the following:

Your friend was absent today and there was an important announcement regarding submission of English project tomorrow. You went to him/her but he/she was not at home you left a message.

Q.III Write a letter to your friend apologising for your misbehaviour with him.

Q.IV   Do as directed.

i) The car owned by my brother-in-law is stolen.

(Use apostrophe to change into possessive form)

ii) The girl with golden bag is my sister.

(Circle the phrase and identify whether they are adjective, adverb, or noun phrase)

iii) There is ---------------- milk in the jar.

(Fill in with correct form of noun....'less')

iv) The gold watch is much _____than this one.

(Use suitable adjective.. 'expensive')

v) That was the-------------------exam I have ever written.

(Use superlative degree.. 'difficult')

ENGLISH LITERATURE

Q1.   Find the meaning of the following words from the dictionary. (Write two meanings for each   word)

1)	disastrous	6)	stately
2)	decked	7)	sturdy
3)	slurping	8)	twirling
4)	slobbering	9)	warf
5)	drooling	10)	melodramatically

Q2.   Make sentence with any 5 words given above.

Q3.   Write the summary of the lesson "The First Pup" in your own words.

Q4.   Reference to context:-
        "And I made fifty – eight – my highest score so far. It really is a lucky bat."

                                        [Ranji's Wonderful Bat]

        1)   Who is 'I' in the above line?
        2)   How did he get the lucky bat?
        3)   How did he lose it?
        4)   Why did he need the lucky bat?
        5)   Why was the bat given to him?

MATHEMATICS

1. $\dfrac{x^{(2n-3)} * \left(x^2\right)^{(x+1)}}{\left(x^4\right)^{-3}} = \left(x^3\right)^3 \div \left(x^6\right)^{-3}$

2.   The sum of the digits of a two digit number is 11. The number obtained on interchanging its digits is 27 more than the original number. Find the original number.

3.   Three natural numbers m, n, p are said to form pythagorean triplet if m is the smallest & m>1 then $m^2 + n^2 = p^2$ and $(2m, m^2 - 1, m^2 + 1)$ are pythagorean triplets then find the pythagorean triplets for the following sides assuming the smallest.
       (i) 7   (ii) 8   (iii)   15

4.   Find the square root of 57 correct up to two decimal places.

5. Find the value of x for which 8x524 is divisible by 11.

6. Divide the following algebraic expressions.
   (i) $(12x^2 +7xy -12y^2) \div (3x+4y)$
   (ii) $(x^4 - 81) \div (x+3)$

7. The angles of a quadrilateral are 5x , 3x+10, 6x-20, and x+25 . Find the measure of x . Also find the measure of each angle.

8. Write and learn the properties of different quadrilateral i.e. Rectangle , square, trapezium, parallelogram, rhombus and kite. Also learn the properties.

9. Evaluate the following
   (i) $\sqrt{10+\sqrt{25+\sqrt{108+\sqrt{154+\sqrt{225}}}}}$

   (ii) if $\sqrt{1+\frac{27}{169}}=1+\frac{x}{13}$ find the value of x.

10.   Find the cube root of 42.875.

PHYSICS
Q1.   Give some practical applications of artificial Satellites in your daily life. (Stick pictures also)
Q2.   Draw sketches to show the relative position of prominent stars in
   (a)   Ursa Major
   (b)   Orion
Q3.   Put a violet straw and red straw in water and find which one out of the two will bend more and why? (Draw the diagram also)
Q4.   Complete the table:-

Position of the object	Beyond 2f	At f	Between F and 2f
Nature and size of the object.			
Position of the image.			

   Draw there ray diagram also.
Q5.   Suppose you are in a dark room. Can you see objects in the room? Can you see objects   outside the room?
   Explain your observation by giving reason.

CHEMISTRY
Q1.   Explain Rutherford's alpha – scattering experiment.

Q2.   Find the number of protons, electrons, neutrons for $^{39}_{19}K$ and $^{34}_{16}S$. Also draw their atomic structure and give their electronic configuration.

Q3.   Balance the following equations:-
   (I) $CO_2+H_2O \underline{sunlight-chlorophyll} C_6H_{12}O_6+O_2$
   (ii) $Kl+Pb(NO_3)_2 \rightarrow PbI_2\downarrow+KNO_3$
   (iii) $N_2+H_2 \rightarrow NH_3$
   (iv) $KClO_3 \underline{heat-catalyst} KCl+O_2$
   (v) $Ca+O_2 \rightarrow CaO$
Q4.   Give one word answer for the following:-

1.   The formula to find the maximum number of electrons present in a shell.
2.   The bond formed between atoms by sharing of electrons.
3.   The fuel used in a nuclear reactor.
4.   The neutral rays that are emitted by a radioactive nucleus.
5.   The element that has only two types of subatomic particles.

BIOLOGY

Q1.   Draw the diagram of 'Human Heart' and label the following parts.
     (i)   right auricle
     (ii)   left auricle
     (iii)   tricuspid valve
     (iv)   bicuspid valve
     (v)   pulmonary artery
     (vi)   pulmonary veins

Q2.   Draw the diagram of artery, vein and capillary and write the differences between artery   and vein.

Q3.   Make a list of 10 healthy and unhealthy habits and lifestyles.

Q4.   Prepare a first aid box and list down the materials needed for the same.

HISTORY & CIVICS

Q1.   Who was Martin Luther? What was his role in the Protest Movement?

Q2.   This is a picture of a machine invented during the Industrial Revolution.

     (a)   Identify the machine invented during the Industrial revolution.
     (b)   Who invented it?
     (c)   Which industry did it revolutionize?
     (d)   Mention any four impacts of the Industrial Revolution.

Q3.   Give an account of the Lok Sabha with reference to
     (a)   Its composition
     (b)   Basic qualifications of its members
     (c)   Its term.

GEOGRAPHY

Q1.   Draw the contours of any five landscapes.

Q2.   On an outline map of the world mark,shade and label the following-
     1.   Densely populated regions of the world (dark brown)
     2.   Moderately populated areas of Europe , China (light brown)
     3.   Sparsely populated regions of the world (yellow)
             (You can also refer to the atlas.)

Q3.   Imagine that you are moving to a country .Which five factors would you take
into   consideration ? Elaborate.
Q4.   Write the difference between over population and underpopulation. Name few of
       overpopullated and underpopullated countries.

COMPUTER SCIENCE
Q1.   Write the full form of the following:-
       LAN; MAN;   WAN;   CAN; TCP; IP; HTTP;   NIC

Q2.   Draw the Flowchart to print the average of five numbers.

Q3.   Write the different rules to write an Algorithm.

Q4.   Differentiate between the following with the help of a diagram as well as with an
       explanation.
       (a)   Star and Ring Topology
       (b)   LAN & WAN

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