ENGLISH

Q1. Read any of the following and make an attractive Book Cover for the same-

1. Great Expectations Charles Dickens
2. Adventures of Sherlock Holmes Arthur Conan Doyle
3. Black Beauty Anna Sewell
4. Little Women Louisa M. Alcott
5. Tales of Shakespeare Edited by Charles Lamb
6. Count Of Monte Cristo Alexander Dumas

Q2. ‘Recycle and Reuse Waste’ is the modern day mantra. Think of one way to effectively reuse or recycle waste items like cans, plastic bottles etc. And illustrate it on a chart.

Q3. Write an illustrated autobiography of an icecream in your classwork notebook.

Q4. More and more people are now used to carrying mobile phones to their work place. However, the use of mobile phones can be dangerous at times and might not be ethical. Write an article on ‘Mobile Culture’ including its advantages and disadvantages in 125 words.
SCI
ENCE

Physics

NOTE- All questions should be done in your Physics notebook except first question.

1. What role does friction play in the sport of your choice? Collect some pictures of that sport in action where friction is either supporting it or opposing it. Display these pictures with proper captions on the bulletin board of your classroom after summer vacations.

2. Imagine that friction suddenly vanishes. How would life be affected. List ten such situations.

3. Visit a shop which sells sport shoes. Observe the soles of shoes meant for various sports. Describe your observations.

4. If a massive star is seen revolving around with no visible star at the centre of its orbit. Find out the names of these bodies. The presence of these bodies were predicted by an Indian-born scientist. Find out his name. You can refer to the NASA site http://imagine.gsfc.nasa.gov/docs/science/know_12/black_holes.html

5. If you use a stick to push an object, the muscular force acting on the object is a non-contact force since our body is not in contact with the object. True or false? Explain.

6. When you rub your hands together, they become warm. What is this due to?

Chemistry

Attempt all the questions:

1. Name the plastics whose sheets are used for packing liquids.

2. From which plastic material is thermocol made?

3. Which plastic material is used to make non-stick pans?

4. Name one thermosetting plastic which is a good insulator and is used to make plugs and switches.
5. Why plastic bottles are commonly used to store chemicals in a chemistry laboratory?

6. These days clothes made out of a mixture of synthetic fibres and natural fibres are more popular than those made purely out of synthetic fibres. Discuss the reason for it.

7. Plastics are very useful materials. Why is there a concern today about their increasing use?

8. List three steps you can take to reduce the danger that plastics pose to the environment.

9. Burning cotton smells like burning paper, whereas burning wool smells like burning hair. Why?

10. Find out what kind of measures are taken in your locality to dispose plastic wastes? Can you suggest some methods to the resident of your area?

**BIOLOGY: CROP PRODUCTION AND MANAGEMENT**

1. Define :
   (a) Crops
   (b) Manures
   (c) Fertilizers
   (d) Irrigation
   (e) Animal Husbandry.

2. Why is soil made loose before sowing seeds?

3. What is the need of replenishing the soil? How is it done?

4. What is Rhizobium? Write its importance?

5. How is manure made? What is its importance over fertilizers?

6. Name three fertilizers and the nutrients supplied by them?

7. What happens if fertilizers are used in excess?

8. Name the implements used in sowing seeds, ploughing and harvesting? Write their
functions?

9. Why is irrigation necessary for crops? How is it done? Which method is better and why?

10. What are Weeds? Why should they be removed? How are they removed? What are weedicides?

11. Name the harvest festivals of India?

12. What happens if the grains are not stored properly? Name few enemies of crops and harms caused by them?

13. How should grains be stored?

14. Why is selection of seeds important?

15. Write five foods and their sources.(Animals and Plants)

(Group Activity)- Five students should be in one group
Make any project / chart on ‘Waste Management’.

You can take any topic from:
Biodegradable wastes, Energy from waste, Radioactive or Nuclear waste, Waste water management, Kitchen waste, E-waste, bricks from flyash, cement from rice husk, Biodiversity park, Recycled paper.

S.ST

1. Make a timeline Chart to show the life of Mahatma Gandhi. (Mention his date of birth, year of marriage, first satyagraha, first national mass movement, Civil Disobedience movement, Quit India movement and year of death).
2. Read the book 'My Experiment with Truth'. Share your feelings with your classmates.

3. Prepare a chart on Waste Management. Focus on practical steps we can take to ensure better disposal of daily waste.

4. Visit Qutub Minar and write a paragraph. Paste some pictures.

5. Prepare a project on any one of the following topic:
   a) Segregation of biodegradable and bio non-degradable waste.
   b) Encourage use of biodegradable substances and their direct and indirect impact on human environment.
   c) Problems and suggestions to reduce bio non-degradable waste.

MATHS

PROJECT WORK:

MAKE A PROJECT ON ANY ONE OF THE FOLLOWING:

a) Make a wall hanging showing descending order of Rational Numbers using waste material

b) Make a ‘Bandhan Bhar’ showing various types of polygons (square, pentagon, rhombus, etc.) (using waste material)

c) Make a braino showing the properties of Rational Numbers (using waste material)
d) Make a braino showing Linear Equations and their solutions (using waste material)

e) Make a scenery using geometric shapes. (using waste material)

f) Make a Chart showing a technique of Vedic Mathematics with an example.

**ASSIGNMENT**

1) Draw a number line and represent the following on it

   a) $-\frac{3}{2}$  b) $\frac{12}{5}$  c) $-\frac{7}{5}$  d) $\frac{3}{8}$

2) Compare the following

   a) $-\frac{9}{12}$ and $\frac{8}{-12}$  b) $-\frac{16}{20}$ and $\frac{20}{-25}$  c) $-\frac{7}{21}$ and $\frac{3}{-9}$

   d) $-\frac{5}{8}$ and $-\frac{3}{4}$  e) $-\frac{7}{12}$ and $\frac{5}{-8}$  f) $-\frac{4}{9}$ and $-\frac{3}{-7}$

3) Arrange the following in ascending order

   a) $\frac{3}{5},-\frac{7}{10},\frac{8}{-15},-\frac{17}{-30}$  b) $-\frac{5}{11},\frac{1}{-2},\frac{-6}{7},-\frac{3}{4}$  c) $-\frac{4}{9,5/-12,7/-18,2/-3}$

4) Arrange the following in descending order

   a) $\frac{4}{3},-\frac{5}{6},-\frac{7}{-12},\frac{11}{-24}$  b) $-\frac{3}{10},\frac{17}{30},\frac{7/-15,-11}{-20}$  c) $-\frac{2}{-13}/6,\frac{8/-3,1/3}{3}$

5) Find five rational numbers between $-7$ and $-5$.

6) Find twelve rational numbers between $-\frac{3}{4}$ and $\frac{5}{6}$.
7) Evaluate the following
   a) \( \frac{4}{7} + \frac{-8}{9} + \frac{-13}{7} + \frac{17}{21} \)  
   b) \(-\frac{7}{4} + 0 + \frac{-9}{5} + \frac{19}{10} + \frac{11}{14}\)  
   c) \(\frac{2}{3} + \frac{-3}{5} + \frac{1}{6} + \frac{-8}{15}\)  
   d) \(\frac{4}{3} + \frac{-5}{8} + \frac{-8}{13} + \frac{9}{13}\)

8) Simplify
   a) \((-\frac{16}{5} \times \frac{20}{8}) - (\frac{15}{5} \times \frac{-35}{5})\)  
   b) \((-\frac{3}{2} \times \frac{4}{5}) + (\frac{9}{5} \times \frac{-10}{3})\)

9) Simplify using the properties
   a) \((-\frac{4}{7} \times \frac{3}{4}) - (-\frac{4}{7} \times -\frac{2}{3})\)  
   b) \((\frac{1}{2} \times -\frac{2}{3}) + (\frac{1}{2} \times -\frac{5}{6})\)

10) Verify that \((x \otimes y) \times z \otimes x - (y \times z)\) for \(x = \frac{3}{5}, y = \frac{2}{7}, z = -\frac{1}{3}\)

11) Solve and check the following
   a) \(x + 7 - \frac{16x}{3} = 12 - \frac{7x}{3}\)
   b) \(\frac{1x}{4} + \frac{1x}{6} = \frac{1x}{2} + \frac{3}{4}\)
   c) \(x - \square 2x - (3x-4)/7 \square = (4x-27)/3 - 3\)
   d) \(0.3x + 0.4 = 0.28 + 0.16\)
   e) \((2t-3)/5 + (t-3)/4 = (4t + 1)/7\)

12) By adding 7 to a number, we obtain 49, find the number.
13) Sum of two numbers is 75. If one exceeds the other by 5, find the number.

14) A number consists of two digits whose sum is 8. If 18 is added to the number its digits are reversed. Find the number.

15) Sum of three consecutive integers is 24. Find the integers.

16) Present age of Sonu's mother is six times Sonu's age. Five years hence, her age will be 20 years more than that of Sonu's age. Find their present ages.

17) A number is divided into two parts such that one part is 10 more than the other. If the two parts are in the ratio 5:3, find the number and the two parts.

18) Length of a rectangle exceeds its breadth by 3m. If the perimeter of the rectangle is 90m, find the length and breadth of the rectangle.

19) The price of 2 tables and 3 chairs is Rs. 340. If a table costs Rs. 20 more than a chair, find the cost of each.

20) Find a number which when multiplied by 8 and then reduced by 11 is equal to 53.

21) Three prizes are to be distributed in a quiz contest. The value of the second prize is five-sixth of the value of the first prize and the value of the third prize is four-fifths of the second prize. If the total value of three prizes is Rs. 450, find the value of each prize.

22) Divide Rs. 1380 among Ahmed, John and Babita so that the amount Ahmed has is 5 times as much as Babita’s share and is 3 times as much as John’s share.

23) One of the angles of a triangle is equal to the sum of the other two angles. If the ratio
of the other two angles is 4:5, find the angles of the triangle.

24) A field can be ploughed in 14 days. If 20 hectares of land is ploughed more daily, the work will be finished in 10 days. Find the area of the land which can be ploughed daily.

25) The sum of two numbers is 4000. If 15% of one is 25% of the other. Find the numbers.

26) A lady went for shopping and spent half of what she had on buying hankies and gave a rupee to a beggar waiting outside the shop. She spent half of what was left on lunch followed up with a two rupee tip. She spent half of the remaining amount on a book and three rupees on bus fare. When she reached home, she had exactly one rupee left. How much money did she start with.

27) A streamer goes upstream in 10 hours and the same distance downstream in 9 hours. If the speed of the stream is 1 km/hr, find the speed of the streamer in still water and the distance traveled by it.

28) A is now 9 years older than b. In 10 years, A will be twice as old as b was 10 yrs ago. Find their present ages.

29) In a rational number twice the numerator is 2 more than the denominator. If 3 is added to the numerator and denominator, the new fraction is 2/3. Find the original number.

30) Find the number whose fifth part increased by 5 is equal to its fourth part diminished by 5.

In addition to this work you also have to do the Exercises from NCERT and R. S. Aggarwal of Chapter 1 and 2.

FRENCH
1. Ecrivez les leçons et faites les exercices de L.No. 1-15 du livre "La Langue et La Civilisation Française-I" - G.MAUGER.

   (Write and solve all the exercises of L.No. 1 to 15 of “La Langue et La Civilisation Française-I” - G.MAUGER.)

2. Dear students,

   With increasing population and rapid development, waste in different forms has assumed serious dimensions. Both rich and poor countries are facing this problem. It is adversely affecting both human health and health of the natural environment. With more prosperity the magnitude of waste is certainly going to magnify. Therefore there is an urgent need for framing sustainable waste management policies and programmes. In framing these policies all concerned, both waste generators and the people who get affected by waste have to play an important role. In addition to government policies different sections of the society have to bear their share of responsibility in devising and implementing waste management policies. Educational institutions like our school obviously have to play a critical role in resuming, recycling and disposal of waste. We have to convert waste into a resource. There are number of examples where beside government, schools have played central role in popularizing waste management policies. Our school has always been in the forefront of social and educational movements designed to improve the human health and reduce the impact of development on environment. Our students in particular have always actively participated in educating society at large by setting examples of high standards. It is in continuation with this tradition and social commitment that we have chosen to assign our students to undertake the assignments on WASTE MANAGEMENT and evolve different methods of managing the waste. Out of various sub-components of this assignment you have to work on the following topic(s):

   ● Enumerate and elaborate impact of waste on human health through picture and diagrams.

   **COMPUTER**

   Make a Chart/Collage (8A, 8C) on the topic: Reduce, Recycle, Reuse. The Chart/Collage should contain more pictures so that it is attractive.
Make a Presentation (8B) on the topic: Reduce, Recycle, Reuse

(Email to: npjcomputer@gmail.com)

IMPORTANT: Write your name and class in the subject of email

- Segregating different types of waste baskets in our school for proper disposal of waste
- Recycling methods
- Composting
- Landfills
- Glass, Aluminium, plastic, metal, textiles recycling
मैंने पता लिया है——
पुस्तक की पीछे दिस गए धातु रूप माय अर्थके लिखी।
बाबु रूप लिखी — नेतृ, पितृ, राजन, महत, ईश्वर—
महत भी सुगन्ध १०६ पर दिए गए अव्ययाए एवं उनके अर्थाते।
सुंदर अन्य भी तैली लिखकर रक्षा करना चाहिए।
हिंदी का क्षेत्र - आधुनिक
विषय - हेड़ियो
प्रश्न - अलग से पतली कॉपी बनाकर नाम कीजिए।

1) दस्ते गुड़ा गुड़ा लिखिए।

2) कमाचार-पहले, पत्रिकाओं और टेलीविजन पर अपने संबंध अनिश्चित दक्षिण-पूर्वी होंगी जिनमें वो विना चित्रण आला के दक्षिणी की सहायता का हो तथा ईमानदार यह काम पण्डित हो। पैदा कमाचार तथा लेख प्रदान कीजिए तथा विनोद की स्थापना अथवा यह कार्यों पर अपने विचार कामत कीचिए।

3) ‘पंचांग’ की आठ नितियों घोर रेता की किसी पोह अक्षरों की रचना आदित से यात्रा पर लिखिए।

4) निम्नलिखित विषयों पर अनुदेश लिखिए—

(1) बालकी बालकांकी की विशेषताएं
(2) ग्रंथ के प्रति विशेषताएं के बारे में
(3) केस (केस-केस)