1. Define the various types of reactions. Give five examples for each type.
2. Explain the process of photosynthesis
3. Explain the process of digestion in human beings.
4. Write an article on artificial kidney (haemodialysis)
5. Define the following: transportation, translocation, excretion, digestion, absorption, rancidity, corrosion.
6. Give the difference between: anaerobic and aerobic respiration, arteries and vein,
7. Complete the practicals that have been discussed in class in practical file.
8. Complete the written work of the chapters done till 17 May
9. Draw well labeled diagrams of the following
   - Human alimentary canal
   - Human heart
   - Excretory system of humans
   - Nephron
   - Double circulation schematic diagram
SUBJECT: MATHS

1. Solve all examples of chapter 1 and chapter 3.

2. Do activity number 1 in Lab Manual.

3. Solve the Following equations for x and y:
   a) $5x - 9 = \frac{1}{y}$; $x + \frac{1}{y} = 3$
   b) $\frac{14}{x+y} + \frac{3}{x-y} = 5$; $\frac{21}{x+y} - \frac{1}{x-y} = 2$
   c) $254x + 309y = -55$; $309x + 254y = 55$
   d) $x + y = a + b$; $ax - by = a^2 - b^2$
   e) $a(x+y) + b(x-y) = a^2 - ab + b^2$; $a(x+y) - b(x-y) = a^2 + ab + b^2$

4. A man can walks a certain distance. He finds that if he walks $\frac{1}{4}$ of a km an hour faster he will take 20 minutes less, but if he walks $\frac{1}{2}$ km an hour slower he will take 52 minutes more. Find the distance and his rate of walking.

5. A person invested some amount at the rate of 12% S.I. and the remaining at 10%. He received yearly interest of Rs. 130 but if he had interchanged the amounts invested, he would have received Rs. 4 more interest. How much money did he invest at different rates?

6. Find H.C.F. of the following using Euclid’s division algorithm:
   a) 128,224,320
   b) 405,840,960
   c) 2781 and 1242

7. Find the H.C.F. and L.C.M. using prime factorisation method:
   a) 1216 and 424
   b) 225,336 and 360
   c) 196,350,728 and 924

8. Prove that the following are irrational numbers:
   a) $\sqrt{11}$
   b) $3 - 2\sqrt{5}$
   c) $\frac{1}{\sqrt{3}}$

NOTE: Revised whole syllabus for FA1.
Q1 Read the novel –The Story of My Life by Helen Keller, write its book review and answer the following questions:

(a) Give a brief description of the house in which the Keller family lived. Why did Helen call her old-fashioned garden as the paradise of her childhood?

(b) How Helen was as a child?

© How did Helen started realizing that she was different from others. Give instances.

(d) How was the summer of 1887 special for Helen?

(e) What did Helen say about Miss Sullivan, her teacher?

(f) Write character sketch of

(i) Helen Keller

(ii) Mr Anagnos

(iii) Dr. Alexander Graham Bell

(iv) Anne Mansfield Sullivan

Q2 You visited your neighbourhood ‘Gol-Gappe-Wala’, green grocer, gardener and tailor and had an interesting conversation with them. Write the dialogue between you and each of them.

Q3 Make a poster on ‘Each one Teach one’ campaign

Q4 Learn lesson-1.poem-1, Determiners and Unit-1-Health and Medicine

Note: Kindly do holiday homework in a separate notebook.
(i) INSTRUCTION: - Do the following maps with proper titles & key.

(1) India-soil types.
(2) Major rivers & dams.
(3) Important minerals.
(4) Conventional sources of energy.
(5) Power plants.
(6) Textile industries.
(7) Iron & steel industries.
(8) Software technology parks.
(9) National highways (Excluding national highways with numbers)
   - Only Golden Quadrilateral, North-South corridor & East-West corridor to be done.
(10) Major ports & international airports

(ii) Revise syllabus for FA-I Exam.
Subject –Hindi

प्रश्न – 1• संवाद लेखन एक कला है। संवादों से ही व्यक्ति की पहचान होती है। संवादों की विषयताओं को ध्यान में रखकर उनके महत्त्व पर प्रकाश डालिए।

प्रश्न – 2• मुख्य प्रेमचंद हिंदी साहित्य में उपन्यास समान के नाम से जाने जाते हैं,उनकी रचनाएँ निश्चय ही समाज के उत्थान के लिए सही साबित हुई। उनके प्रसिद्ध उपन्यासों का सार लिखते हुए समाज में उनकी सार्थकता को स्पष्ट कीजिए।

प्रश्न – 3• कबीर की साहित्यियों ने समाज को बुराई से अच्छाई की ओर मोड़ा है। ऐसे समाज सुधारक कवियों के चरित्र की विषयताओं को अपने एक लेख के माध्यम से स्पष्ट कीजिए।

प्रश्न – 4• सैतिकता के किसी प्रसिद्ध कवि की कोई एक रचना के संदर्भ में अपने विचार व्यक्त कीजिए।

प्रश्न – 5• निम्नलिखित विषयों में से किसी एक विषय पर 100 शब्दों में अनुच्छेद लिखिए–

1• ब्रह्मचार से मुक्ति
2• कंप्यूटर की उपयोगिता
3• मेरे सपनों का भारत
d. आधुनिक राजनीति