**For 9th Class**

**English**

Q1. Read the passage given below and answer the questions that follow.

The culture of nuclear families is in fashion. Parents are often heard complaining about the difficulties in bringing up children these days. Too much of freedom in demand, too much independence; over night parties; excessive extravagance, splurging pocket money; no time for studies and family all this is a common cry of such families. Aren’t parents, themselves, responsible for this pitiful state ? The basic need of a growing youth is the family, love, attention and bonding along with moral values. One should not forget that ‘charity begins at home’.

Independence and individuality both need to be respected, in order to maintain the sanctity of family. Children, today are to be handled with tact in order to bridge the ever widening generation gap. Only the reasonable demands need to be fulfilled, as there are too many expenses to be met and top many social obligations to be taken care of by the parents. Our forefathers lived happily in joint families. Children loved to live with their cousins, learnt to adjust within means. There was perfect harmony between the generations. There never existed the concept of old-age homes. There was deep respect for the family elders and love, care and concern for the youngsters. Even the minor family differences were solved amicably.

a) Mention any two major common concerns of a nuclear family.

b) Who, according to the passage, are responsible for them ?

c) Explain the expression ‘charity begins at home’.

d) Describe the atmosphere in joint families.

e) Which word in the passage means ‘Holiness of life’ ?

Q2. You make the following notes after reading about the disappearance of bird habitats from city forests and parks. Write an article in 100-120 words stressing upon the need for bringing back the birds to the city. You are Sonu/Sonalika.

Q3. Read the text book and write the character sketches of the following :

a) Bismillah Khan

b) Evelyn Glennie

c) Margie

d) Toto

Q4. Make a Chart on lesson of your choice which will be presented in the class after holidays.The lesson can be a grammar topic, writing skill or literature. This activity will be marked. (Example : Tenses, Verbs, article writing, story writing)

**Social Science**

Read the chapters taught carefully of all four subjects and do the Assignment questions in your respective subject notebook.

ASSIGNMENT

GEOGRAPHY

1. In Asia, what is the strategic significance of India?
2. India has had strong geographical and historical links with her neighbors. Comment.
3. Why is Indian Ocean named after India? Enumerate any three reasons.
4. How has India benefitted from the opening of Suez Canal?
5. Mention the time lag between Gujrat and Arunachal Pradesh. How is uniform time set for all places in India?

 **ECONOMICS**

1. Enlist the merits and demerits of Green Revolution in India.
2. What are the different ways of increasing production on a same piece of land? Explain.
3. Modern farming methods require inputs which are manufactured in industry. Do you agree?
4. Distinguish between physical and human capital.
5. Briefly explain about the non-farming activities of the village Palampur.

**Maths**

Ch1,2 NUMBER SYSTEM AND POLYNOMIALS

1. If x + y = 12 and xy = 32, Find the value of x2 + y2.

2.  If 3x + 2y = 12 and xy = 6, find the value of 9x2 + 4y2.

3.  Write the following cubes in the expanded form:

      (i)   (3a + 4b)3

      (ii)   (5p – 3q)3

4.  If x2 + 1/x2 = 27 ,find the values of each of the following:

      (i)   

      (ii)   

5.  If  then evaluate x2+1/x2

6.  If a + b + c = 15 and a2 + b2 + c2 = 83, find the value of a3 + b3 + c3 – 3abc.

7.  Factorize:

      (i)   6ab – b2 + 12ac – 2bc

      (ii)   9(2a – b)2 – 4(2a – b) – 13

8.  If x3 + ax2 – bx + 10 is divisible by x2 – 3x + 2, find the values of a and b.

9.  Using factor theorem, factorize each of the following polynomials:

      (i)   x3 – 6x2 + 3x + 10

  (ii)   2y3 – 5y2 – 19y + 42

10.  Which one is not a polynomial

      (a)   4x2 + 2x – 1

(b)   

(c)   x3 – 1

(d)   y2 + 5y + 1

11.  Find the number of zeros of x2 + 4x + 2.

12.  Find the value of k, if (x – 1) is a factor of 4x3 + 3x2 – 4x + k.

13. Every whole number is a natural number write true or false.

14.  If  find the value of x2 + y2 + xy.

15.  If  find the value of x2 - y2.

**Science**

1. Give one word for the following

 a. The force of attraction between the particles

 b. The rigid form of matter

 c. A solid which can be compressed easily

 d. The tendency to flow and change shape

 e. Mixing of substances on their own

2. Give the full form of CNG and LPG. What is common between the two? Give explanation for the same.

3. Draw a diagram to show the arrangement of particles in a solid, a liquid and a gas.

 What can be interpreted from the distance between the constituent particles?

4. Draw a flow diagram showing the Interconversion of states of matter. Label the diagram properly.

5. Which characteristic of matter is exhibited by these phenomenons?

 Brownian motion and diffusion

Note: Read Chapter 1 Physics ,Chemistry -1

Biology-1 and do the book work with the help of text book.

**Hindi**:- Do 3 unseen passages from your grammar work sheet

Grammar: Read Chapter -1&2 thoroughly and do book work