



# SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi

## Assignment-2 (2019-20)

Class: X

Name : \_\_\_\_\_ UID : \_\_\_\_\_ Roll no. : \_\_\_\_\_

### English

Design a poster for the conservation of any one the endangered species –Bengal Tiger, Rhino, Polar Bear, Asian elephant and Dolphin.

### Hindi

1। श्रृंगार , वीर, भयानक एवं हास्य आदि रसों का स्थाई भाव सहित उदाहरण लिखें।

2। निम्न पदों के स्थायी भाव एवं रस का नाम लिखें

(क) जो मैं ऐसी जानती, प्रीति करै दुख होय। नगर दिंडोरा पीटती, प्रीति न करियो कोय।।

(ख) अपनी तोतली भाषा में, वह सिस्सक सिस्सककर बोली, जलती थी भूख दूपा की, उसके अंतर की होली। हा! सही न जाती मुझसे, अब आज भूख की ज्वाला, कल से ही प्यास लगी है, हो रहा हृदय मतवाला।।

(ग) अच्छा अपराधी हमी सही, हमने ही गरल निचोड़ा है। जो कुछ करना है करें आप, शिव धनुष हमी ने तोड़ा है।।

### Maths

1. If the nth term of an AP is  $(5n-2)$ , find its first term, common difference and  $19^{\text{th}}$  term.
2. If the pth, qth and rth terms of an AP be a, b, c respectively, then show that  $a(q-r)+b(r-p)+c(p-q)=0$
3. The sum of three numbers in AP is 3 and their product is -35. Find the numbers.
4. The sum of first six terms of an AP is 42. The ratio of its 10<sup>th</sup> term to 30<sup>th</sup> term is 1:3. Calculate the first and the 13<sup>th</sup> term of an AP.
5. Find the sum of the following  $\therefore (1-\frac{1}{n}) + (1-\frac{2}{n}) + (1-\frac{3}{n}) + \dots$  upto n terms.
6. Lab activity ex. 1.2 and 1.4 of the book.

### Physics

To design a working model of electric motor / telescope and prepare a brief report explaining its principle, construction and working.

### Chemistry

Write the following activities in practical copy:

1. To study the properties of acetic acid (Expt 8)

2. Study of the comparative cleaning capacity of a sample of soap in hard and soft water. (Expt 9)

### Biology

1. Observe fish in an aquarium. (Activity 6.6 of Science Book NCERT)
  - a) They open and close their mouths and the gill-slits behind their eyes also open and close. Are the timings of the opening and closing of mouth and gill-slits coordinated in same manner?
  - b) Count the number of times the fish opens and closes its mouth in a minute. Compare this to the number of times you breathe in and out in a minute. (Note: Write the above observation in an A4-size sheet. Also paste picture/pictures regarding your activity)

OR

Draw the following diagrams in A-4 size sheets:

- a) Schematic representation of transport and exchange of oxygen (by using red colour) and carbon dioxide (by using blue colour). (Transportation in human beings)
- b) Structure of a nephron (with labeling) with renal artery and the branch of renal vein.

### History:

Make timelines mentioning the important events of industrialization in

- a) England
- b) India

### Civics:

Collect pictures and information on the Narmada Bachao Andolan as a popular movement.

(value points: when and why it started, states where it took place, methods of struggle and main leaders.)

### Geography:

On political outline maps of India locate and label

- a) cotton textile plants
- b) iron and steel plants

(NCERT book pg 69, 72)

### Economics

With the help of a diagram, outline the role of RBI in economic development.

### Sanskrit

क संस्कृत भाषायाम् अनुवादम्कुरुत-

1. मैं पिता के साथ बाजार जाऊंगा।
2. मोहन को मिठाई अच्छी लगती है।
3. कक्षा के बाहर अनेक छात्र हैं।
4. लता और सीता पढ़कर घर जाती है।

ख परोपकार: इति विषये 'पञ्च वाक्यानि संस्कृतेन लिखत।