

**SAINIK SCHOOL BALACHADI**

**(2017-18)**

**SUMMER VACATION HOMEWORK**

**CLASS: X**

**ENGLISH**

- Q1. Drinking water is becoming a rare commodity. Industrial development is filling our rivers, seas and oceans with toxic pollutants which are a major threat to human health. You are deeply saddened to see water pollution as an appalling problem, which is powerful enough to lead the world on a path of destruction. Write a letter to the Editor of Express News to make the public aware about the causes of water pollution and also suggest the measures to prevent water pollution.

(About 100 -120 words)

You may use the clues given below:

- Causes of Water Pollution
  - industrial waste
  - sewage and waste water
  - mining activities
  - accidental oil leakage
  - burning of fossil fuels
  - urban development
  - Suggestive measures
  - prevent river water to get polluted
  - treatment of wastes before discharge
  - treatment of drainage water
  - routine cleaning
  - self-hygiene
  - public Awareness
- Q2. Nowhere in the world is found such a beauty, different and diversified climate, flora, fauna, religions, languages, dialects, dressing patterns, life style and rituals, like India. The Indian tourism and hospitality industry has emerged as one of the key drivers of growth among the services sector in India. Write an article in about 100-120 words for your school magazine offering suggestions for promoting tourist industry. Give a suitable title. You may use the clues given below:
- indirectly generates more employment and helps to raise our economy as foreign money will flow in
  - development of infrastructure to meet the present and future needs of tourists
  - starting overseas offices at different countries to promote India as a tourism destination
  - try to provide best of the services in Air India and in Indian Rail
  - start different packages for various destinations to attract more tourists

- Q3. Write a story in about 150-200 words beginning with the following:

*You are sitting with your friends on a log near a stream. One of your friends looks up at the sky and says.....*

- Q4. Write 50 difficult words with their meanings and use each of those 50 difficult words in sentences of your own so that the meaning is also expressed.

For e.g. Ultimate – final  
Our School team won the West Zone championship ultimately.

## HINDI

पृ. 1. नीचे दिए गए वाक्यों में से रेखांकित पदों का परिचय दीजिए।

- (क) यह छत्र बहुत चतुर है।
- (ख) हम बाग में गए परंतु वहाँ कोई आम न मिला।
- (ग) आह! इपवन में सुंदर फूल खिले हैं।
- (घ) मैं दसवीं कक्षा में पढ़ता हूँ।
- (ङ.) एवरेस्ट संसार का सबसे ऊँचा शिखर है।

पृ. 2. नीचे दिए गए सरल वाक्यों को संयुक्त वाक्यों में बदलिए।

- (क) वह फल खरीदने के लिए बाजार गया।
- (ख) आलसी होने के कारण वह विफल हुआ।
- (ग) सूर्योदय होने पर पक्षी बोलने लगे।
- (घ) रात होते ही आकाश में तारे टिमटिमाने देने लगे।

पृ. 3. नीचे दिए गए सरल वाक्यों को मिश्र वाक्यों में बदलिए।

- (क) स्वावलंबी व्यक्ति सदा सुखी रहते हैं।
- (ख) परिश्रमी व्यक्ति अवश्य सफल होता है।
- (ग) मैंने एक दुबला पतला व्यक्ति देखा।
- (घ) मेरे स्टेशन पहुँचने से पहले ही रेलगाड़ी छूट गई।

पृ. 4. नीचे दिए गए मिश्र वाक्यों को सरल वाक्यों में बदलिए।

- (क) रोगी ने ज्योंही दवाई पी, उसे उलटी हो गई।
- (ख) यह वही बच्चा है, जिसे बैल ने मारा था।
- (ग) जब तक डॉक्टर पहुँचा तब तक रोगी मर चुका था।
- (घ) उसने कहा कि मैं परिश्रमी हूँ।

पृ. 5. कर्तवाच्य से कर्मवाच्य में बदलिए।

- (क) शिकारी शिकार करते हैं।
- (ख) क्या आप दिल्ली जाएँगे?
- (ग) भगवान हमारी रक्षा करता है।
- (घ) यह कविता उसने लिखी है।

पृ. 6. कर्मवाच्य से कर्तवाच्य में बदलिए।

- (क) सुंदर द्वारा मधुर गीत गाये गये।
- (ख) पक्षियों द्वारा आकाश में उड़ा जाता है।
- (ग) कलाकार के द्वारा मूर्ति गढ़ी जाती है।
- (घ) नानी द्वारा कहानी सुनाई गई।

## MATHEMATICS

- 1- Write 30 mathematical terms and their definitions. (Ex. – Square, Profit, Ratio ,etc.)
- 2- Collect 10 Mathematicians pictures and paste in answer sheet and then write 6-7 lines about them.
- 3- Write 50 Mathematics formulas (upto class x) with proper classification.
- 4- Collect 20 pictures where you can see some Mathematical shapes such as square, cube (ex. bucket, building etc.)
- 5- Solve all the examples of chapter 1 and 2 from your NCERT text book.

Note – All these work should be done in your vacation homework note book which is provided by the school . Work must be tidy and clean. Your handwriting must also be proper and nice.

## SCIENCE

### PHYSICS

1. Draw the Ray-diagrams for the image formation by Concave and convex mirror also write the position of image, nature of image and size of the image in each ray diagram.
2. Write 5 practical uses of Concave and Convex mirror.

Note : Draw the Ray diagram using pencil only.

### CHEMISTRY

1. Explain the types of chemical reactions with suitable examples.
2. Balance the following chemical equations :
  - (i)  $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$
  - (ii)  $\text{HNO}_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Ca}(\text{NO}_3)_2 + \text{H}_2\text{O}$
  - (iii)  $\text{Al}(\text{OH})_3 \rightarrow \text{Al}_2\text{O}_3 + \text{H}_2\text{O}$
  - (iv)  $\text{Al}_2(\text{SO}_4)_3 + \text{NaOH} \rightarrow \text{Al}(\text{OH})_3 + \text{Na}_2\text{SO}_4$
  - (v)  $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$
3. Translate the following statements into chemical equations and then Balance the equations.
  - (a) Hydrogen sulphide gas burns in air to give water and sulphur dioxide.
  - (b) Aluminum metal replaces iron from ferric oxide, giving aluminium Oxide and iron.
  - (c) Potassium metal reacts with water to give potassium hydroxide and Hydrogen gas.
4. A metal 'X' forms a salt  $\text{XSO}_4$ . The salt  $\text{XSO}_4$  forms a clear solution in Water which reacts with sodium hydroxide solution to form a blue Precipitate Y. Metal 'X' is used in making electric wires and alloys like Brass.
  - (a) What do you think the metal 'X' could be ?
  - (b) Write the name, formula and colour of salt  $\text{XSO}_4$ .
  - (c) What is the blue precipitate Y ?
  - (d) Write the chemical equation of  $\text{XSO}_4$  reacting with sodium hydroxide Giving Y.
5. What are anti-oxidants? Why are they added to fat and oil containing foods?

### BIOLOGY

1. What are the three modes of nutrition? Explain with example.
2. Explain Nutrition in plants( complete process with diagram).
3. Explain Nutrition in Amoeba with diagram.
4. Explain Nutrition in Human Beings with diagram.

## **SOCIAL SCIENCE**

1. Prepare the project work in your Holiday Home work note book only:-

- a. The ethnic violence in Sri Lanka (1979-2009) – Historical account
- b. The geographical features of north and east Sri Lanka that helped the growth of LTTE – Geographical perspective.
- c. The impact of LTTE in Indian Polity and society – Political and economic perspective.

Instructions:- Max page – 10 page of write up Additional information in the form of pictures, tables, statistics etc.

## **FIT**

1. What is a computer?
2. What you mean by a program?
3. Explain the basic structure of the computer?
4. Write full form of
  - a. CPU b. RAM c. ALU d. CU
5. Write examples of Operating System.