



OXFORD PUBLIC SCHOOL, RANCHI
SA-1 EXAMINATION
SESSION 2016-2017

Class –VII

Sub - Science

Name _____

Class &Sec _____

Time : 2.30 Hrs

F.M.: 90

Roll No _____

General Instruction:-

All the questions are compulsory.

PHYSICS -30

- Q1. Answer in one sentence: (6x1=6)
- Draw a distance time graph for a stationary object.
 - When air is filled into a balloon, the balloon gets inflated. Why ?
 - What are monsoon winds?
 - Write one similarity between clinical thermometer and laboratory thermometer.
 - What do you mean by poor conductors of heat ? Give examples.
 - What is scalar quantity ? Give an example.
- Q2. Short answer type questions : (4x2=8)
- What is the function of kink in the clinical thermometer ?
 - Where is a cyclone formed ? Name any four factors which help in the development of a cyclone.
 - Why holes are made in hanging banners and hoardings ?
 - The train is running at a speed of 60 km/h. Calculate the speed of train in m/s.
 - What is a simple pendulum ?
 - Write any two damages caused by tornado.
- Q3. Long answer type questions: (4x3=12)
- Why a laboratory thermometer is suitable for measuring the human body temperature?
 - Why is it better to wear dark clothes in winter ?
 - What is thunderstorm? State three precautions which should be observed to protect ourselves from lightning during a thunderstorm.
 - What do you mean by speed ? Write its S.I. unit.
 - A car travelling at a speed of 45 km/h takes 20 minutes to reach its destination. What distance has the car travelled?
 - Write three differences between uniform motion and non uniform motion.
- Q4. Draw and explain formation of sea breeze. (2x2=4)

CHEMISTRY-30

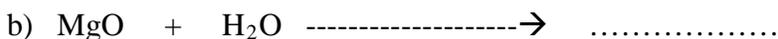
Answer in one sentence:

(6x1=6)

- State two main differences between acids and bases.
- Name the acid-base indicator extracted from lichens.
 - What does calamine solution contain?

3. When a candle burns, both physical and chemical changes take place. Identify these changes.
4. What is meant by galvanization? Why is it done?
5. Define:
 - a) Neutralisation
 - b) Crystallisation

6. Complete the equation:



II. Answer in brief:

(4x2=8)

1. Name two strong acids and two weak acids.
2. a) Is sodium hydroxide an acid or a base?
b) What is meant by acid rain? What damages is caused by acid rain?
3. Give Reason:
 - a) Freezing of water is a physical change .
 - b) Burning of paper is a chemical change .
4. What happens when carbon dioxide gas is passed through lime water? Write a word equation for this process.

III. Long Answer Type Question :

(4x3=12)

1. What are neutral salts, acidic salts, and basic salts . Give one example of each type of salts.
2. a) What is meant by the rusting of iron?
b) State two conditions necessary for the rusting of iron to occur.
3. What happens when magnesium ribbon is burned in air ? Write a chemical equation for this process. Name the type of change which takes place.
4. Define:
 - a) Compound
 - b) Diffusion
 - c) Valency

IV. a) Write the chemical formula for the following :

(3+1=4)

Sulphuric acid, Potassium chloride, Calcium Hydroxide, sodium carbonate, Nitric acid, Water

b) Give two properties of metals.

BIOLOGY -30

I. Answer in one sentence:

(6x1=6)

1. a) Name the bacteria which convert nitrogen gas of air into nitrogen compounds.
b) Name the thin, outer covering which encloses a cell.
2. Name the type of teeth which are:
 - a) for chewing and grinding food.
 - b) for piercing and tearing food.
3. State any two adaptations in big cats which help in their survival .
4. What is meant by the migration of birds? Why do birds migrate?
5. List two similarities between aerobic respiration and anaerobic respiration.
6. Define:
 - a) Respiration
 - b) Breathing rate

II. Answer in brief:

(4x2=8)

1. a) What is meant by 'climate'?
b) State two factors which affect the climate of a place.
2. a) Why does penguin huddle together?
b) How are monkeys adapted to live on trees?(any two points)
3. Describe the mechanism of breathing in humans.
4. a) Why do we usually feel hungry after a heavy physical exercise?
b) Write a word equation for aerobic respiration.

III. Long Answer Type Question :

(4x3=12)

1. Define :
 - a) Symbiosis
 - b) Parasites
 - c) Weather
2. a) What is the role of hydrochloric acid in stomach?
b) What is Oral Rehydration solution?
c) What is the function of bile in the digestion of food?
3. a) List two differences between aerobic respiration and anaerobic respiration.
b) Which contains more carbon dioxide: inhaled air or exhaled air? Why?
4. a) How does an elephant living in the tropical rainforest adapt itself?(any two points).
b) State 'TRUE' OR 'FALSE'
 - i. Weather and climate are just the same .
 - ii. Red-eyed frog lives in the water of a pond.

IV. Draw a labelled diagram of human respiratory system.

(4x1 =4)
