



- Please check that this question paper contains 3 printed pages.
- Please check that this question paper contains..32 .questions.
- Please write down the Serial Number of the question before attempting it.
- Please draw the figure as mention in the question .

FIRST TERM EXAMINATION 2017 -18 CLASS -VIII SUBJECT-SCIENCE (SET-1)

Time allowed: 3 Hours

Maximum Marks: 80

General instructions.

- All questions are compulsory.

PHYSICS

(27 marks)

1. Fill in the blanks :

(1x4=4)

- Liquids exert _____ in all directions.
- Friction acts in a direction _____ to the motion.
- The SI unit to measure the loudness of sound is _____.
- Pillars of bridges have _____ base.

2. Give one word /statement for the following:

(1x3=3)

- Sound that is pleasing to our ears.
- Factor on which loudness of sound depends.
- The force with which the earth attracts other objects towards it.

3. Give reasons for the following statements :

(1x2=2)

- It is difficult to write with a pencil on a glass surface.
- The machine parts are oiled occasionally.

4. Give any two harmful effects of noise pollution.

(2)

5. A vibrating object has a time period of 0.05 minute. Calculate its frequency of vibration. Will the sound be detected by the human ear?

(2)

6. It is difficult to carry a school bag with a narrow strap. Why?

(2)

7. How are you able to drink juice using a straw?

(2)

8. (a) Differentiate between magnetic force and muscular force.

(1+2)

(b) Name the forces acting on a book lying on the table .Discuss why the forces acting on the book do not bring a change in its state of motion or state of rest .

9. (a) Draw well labeled diagram of larynx and explain its function in brief.

(2+1)

(b) Astronauts are not able to talk with each other on the surface of moon .Explain the reason.

Multiple choice Questions(Choose the correct option):

10. The pressure exerted by a man on earth will be less when he is:

(1)

- lying down
- sitting
- standing on one foot
- standing on both the feet

11. Four children were asked to arrange forces due to rolling, static and sliding friction in increasing order. Their arrangements are given below. Choose the correct option. (1)
- (a) Rolling, static, sliding (c) Static, sliding, rolling
 (b) Rolling, sliding, static (d) Sliding, static, rolling
12. Friction can be increased by: (1)
- (a) making the surfaces smooth (b) lubricating the surfaces
 (c) Using ball bearings (d) making the surfaces rough
13. Which characteristic of sound distinguishes between a man and a woman's voice: (1)
- (a) Loudness (b) Time period
 (c) Pitch (d) Amplitude

CHEMISTRY

(27 Marks)

1. Name:

(1X5=5)

- A liquid metal.
- A gas used in refrigerators and responsible for ozone layer depletion.
- A metal which is stored in kerosene oil.
- The effect in which trapping of radiations by the Earth's atmosphere takes place.
- Full form of PVC.

2. You have seen blue and green coloured bins in public places. Your friend has to throw some waste materials but he is confused. He has peels of fruits / vegetables and has metallic cans of cold drinks. Help him out in using appropriate bin by giving suitable reason. (2)

3. Give reason.

(2X2=4)

- Taj Mahal which is made up of white marble is gradually becoming yellow.
- Kayon is semi synthetic fibre.

4. Answer the following:

- State your observation with chemical equation when Iron filings are added to copper sulphate solution. (2 + 1)
- A metal ribbon burns in air with bright white light and forms a white powder.
 - What metal is this? (1+1+1)
 - Give the equation of the reaction taking place.
 - The metallic oxide formed would be acidic or basic in nature

5. Complete the following chemical reactions:

- Zinc + Copper sulphate \rightarrow _____ + _____ (2)
 - Zinc + dil. Sulphuric acid \rightarrow _____ + _____
6. i) What is Potable water? Mention one physical and one chemical method to make water safe for drinking. (2)
- ii) Two water borne diseases _____, _____ (1)

7. There are two elements A and B. A can be beaten into thin sheets but B cannot be. Differentiate between the two with respect to their conductivity and physical appearance. (2)

8. MCQ's

(3)

- Which of the following non metals is a liquid?
 - Sulphur
 - Phosphorous
 - Carbon
 - Bromine
- Out of the following, which is not biodegradable?
 - Vegetable peels
 - Plastic bags
 - Cotton
 - Jute
- Ozone layer is present in:
 - Troposphere
 - Stratosphere
 - Mesosphere
 - Ionosphere

BIOLOGY

(26 Marks)

- Q1. (i) Jams and Pickles are preserved by adding (2)
 (ii) Name the cell in human body which continuously change their shape (2)
- Q2. What do you mean by the following (2)
 (a) Protoplasm (b) Gene
- Q3. Make a sketch of the longest cell in the human body. What function do they perform? (2)
- Q4. Complete the following :- (2)

S.No	Disease	Causative microorganism
(a)	Cholera	
(b)		Virus
(c)	Rust of wheat	
(d)	Malaria	

- Q5. What will happen if yeast powder is put in sugar solution & kept for few hours? Name the process. (2)
- Q6. Farmers in Northern India grow legumes as fodder in one season and wheat in the next season. (2)
 (a) What is this practice known as?
 (b) How does this practice help in the replenishment of soil?
- Q7. The mosquito P is a carrier of virus and spreads a disease Q. Another mosquito R is the carrier of protozoan S and spreads a disease called T. (2)
 (a) Name the Mosquito P and disease Q.
 (b) Name the disease T.
 (c) Name the protozoan S.
- Q8. a) How is a unicellular organism structurally and functionally different from a multicellular organism? Give example to support your answer. (2+1+3)
 b) It has been observed that most of the plant cells have a peripheral nucleus whereas animal cells usually have a central nucleus. Why?
- Q9. Explain the working with the help of a diagram the irrigation system that helps in the maximum conservation and the optimum utilization of water? (3)
- Q10. Elucidate with the help of a flow chart how the percentage of nitrogen in the atmosphere remains more or less constant. *Explain.* (3)
- Q11. Given below is a plant cell. Identify A, B and D correctly. Give one function of each. (3)

