

Unsolved Sample Paper

Class VII

Subject: Science

Max Marks: 80

Time: 3 Hours

GENERAL INSTRUCTIONS:

- Read the instructions carefully
- All the questions are compulsory.
- Question number 1 to 5 carries 1 mark each.
- Question number 6 is carries 2 marks each.
- Question number 7 carries 5 marks each.

1.) State whether the following statements are True or False: -

Marks: 5.0

- A. The network of big and small pipes that is a transport system which carries sewage from the point of being produced to the treatment plant is sewerage. (T)
- B. In sorting process the fleece of the sheep along with a thin layer of skin is removed by machines. (F)
- C. To neutralize the acidity of soil, calcium oxide is added to soil. (T)
- D. The range of clinical thermometer is from 40°C to 52°C. (F)
- E. The inner walls of the stomach are surrounded by the mucous layer which protects from acidic medium. (T)

2.) Fill in the blanks with appropriate answers: -

Marks: 5.0

- A. Motion along a straight line is called motion.
- B. When electric current is passed through a copper wire it behaves like a
- C. is a device used to measure the wind speed.
- D. The floatable solids like oil and grease are removed with the help of in sedimentation tank of the waste water treatment plant.
- E. is used as an antacid to neutralize the effect of hydrochloric acid in stomach.

3.) Multiple Choice Questions (There can be more than one answer right):

Marks: 5.0

- A. During exhalation, the space inside the chest cavity decreases to ____.
- take air into the heart
 - force air out of heart
 - force air out of the lungs
 - take air into the lungs
- B. The reason for the release of sulphur dioxide and nitrogen dioxide into the atmosphere is mainly due to excessive combustion of
- Coke
 - Kerosene
 - Wood
 - Petroleum and coal
- C. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
- 3.6
 - 7.2
 - 8.4
 - 10
- D. Select the incorrect statements from the following
- Uneven heating on the earth is the main cause of wind movements.
 - Warm air rises up, whereas comparatively cooler air tends to sink towards the earth's surface.
 - High-speed winds and air pressure difference can cause cyclones.
 - Air around us does not exerts pressure.
- E. If the sewage contains a heavy amount of nitrates and phosphates it is considered as waste.
- Inorganic
 - Organic
 - Microbial
 - Viral

4.) Very Short Answer Questions:

Marks: 5.0

- A. Why are people advised not to stand near fast moving train?
- B. Why are holes made in huge hoardings?
- C. Find the distance of a car if it moves with 5 km/h in 3 hours.
- D. Define neutralization reaction.
- E. Why is the stomach environment acidic in nature?

5.) Match the items given in two columns: -

Marks: 20

A

| Column A | Column B |
|--------------------------------|-----------------------|
| Fish | Tracheal tubes |
| Anaerobes | Diaphragm |
| Earthworm | Gills |
| Cockroach | Yeast |
| Muscular sheet of chest cavity | Cutaneous respiration |

B

| Column A | Column B |
|--------------------------|--------------------|
| Rear view of vehicles | Dispersion |
| Plane mirror | Concave mirror |
| Dentist | Obtained on screen |
| Splitting of white light | Lateral inversion |
| Real image | Convex mirror |

C

| Column A | Column B |
|-------------------------|-------------------------------------|
| Excess water absorption | Protects stomach from HCl |
| Mucus | Increase the surface area |
| Epiglottis | Removal of faeces |
| Anus | Large intestine |
| Villi | Prevents food from entering trachea |

D.

| Column A | Column B |
|----------------|-------------------------|
| Red blood cell | Clot formation |
| Platelets | Transports impure blood |

| | |
|------------------|----------------------|
| Arteries | Transport gases |
| Veins | Fight from infection |
| White blood cell | Pure blood |

6.) Short Answer Questions:

Marks: 20.0

- How transportation is helpful in ascent of sap in plants?
- What is difference in mode of transportation in xylem and phloem?
- Why does thick glass tumbler crack when we pour hot tea into it?
- What is the difference between unisexual and bisexual flower?
- Why gas is released after opening Soda Water bottle?
- Why it is advised that spoon should not be placed in pickle Jar?
- Why are digital thermometers preferred over mercury thermometer?
- A metal ball just passes through a metal ring at room temperature. On heating the same metal ball does passes through the ring? What could be the reason for this?
- How does the temperature act as an agent of physical weathering?
- A simple pendulum takes 15 seconds to complete 5 oscillations. What is the time period of the pendulum?

7.) Long Answer Questions: -

Marks: 20.0

- Compare the various properties of loamy soil, sandy soil and clayey soil.
 - Which soil is considered best for the growth of plants? Give reasons to support your answer.
- Give a detailed account of the structure and functioning of the heart.
- Write about the special feature of the following seeds which is helpful in their dispersal
 - Seeds of drumstick
 - Seeds of balsam
 - Seeds of *Urena*
 - What is the term given to the process of reproduction occurring from the vegetative parts of the plants? Explain with the help of an example.

- D. a. If we want to keep cold water cold for long time, should the container be painted white or black from outside? Give reasons.
- b. What are the different methods of heat transfer?