

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

- A. How transportation is helpful in ascent of sap in plants?
- B. What is difference in mode of transportation in xylem and phloem?
- C. Why does thick glass tumbler crack when we pour hot tea into it?
- D. What is the difference between unisexual and bisexual flower?
- E. Why gas is released after opening Soda Water bottle?
- F. Why it is advised that spoon should not be placed in pickle Jar?
- G. Why are digital thermometers preferred over mercury thermometer?
- H. 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?
- I. How does the temperature act as an agent of physical weathering?
- J. 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

- A. a. Compare the various properties of loamy soil, sandy soil and clayey soil.
- b. Which soil is considered best for the growth of plants? Give reasons to support your answer.
- B. Give a detailed account of the structure and functioning of the heart.
- C. a. Write about the special feature of the following seeds which is helpful in their dispersal
 - a. Seeds of drumstick
 - b. Seeds of balsam
 - c. Seeds of *Urena*
- b. 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?