

Time allowed: **3 hours**; Maximum marks: **75**

General Instructions:

- All Questions are compulsory
- The Question Paper consists of 27 Questions divided in to four sections A, B, C and D
- Section - A comprises of 3 Very Short Questions of 1 mark each
- Section - B comprises of 3 Short Questions I of 2 marks each
- Section - C comprises of 12 Short Questions II of 3 marks each
- Section - D comprises of 6 Long Questions of 5 marks each

Section - A

- Name major soil pollutants?
- List at least 3 harmful effects of sewerage?
- Why does cell need energy?

Section - B

- What are the basic conditions required for the rusting of Iron? Also write chemical equation.
- Write 3 advantages of vegetation propagation?
- Differentiate between RBC and WBC?

Section - C

- Write down the characteristics of image formed by a Concave Mirror. Also give some of its uses (at least three)?
- Define the term Lateral inversion. Give a real life use of lateral inversion?
- Differentiate between Physical and Chemical Change
- What happens when vinegar is added to baking soda? Also if the gas evolved in the process is passed through lime water?
- What are manholes? And why are they made?
- An untreated human excreta is a health hazard. Explain
- Describe various ways in which seeds are spread.
- Describe various methods of asexual reproduction. Give examples also
- Why heavy electrical home appliances have green insulated wire?
- Write a short note on Short Circuiting and Overloading.
- Mention properties of a magnetic field lines due to a current through a straight line?
- List difference between aerobic and anaerobic respiration?

Section - D

- Write a short note on Septic tank
- Write a short note on Chemical/Synthetic toilets
- Draw a well labeled diagram of heart and describe circulation of blood through heart?
- Describe budding giving an example with proper stages and draw diagram of budding in yeast?
- Define terms
 - Crystallization
 - Reflection of light
 - Adaptation
 - Galvanization
- State all the properties of magnetic field lines?