

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

- Visually challenged persons can read and write by using _____ system?
- State the purpose of tester in electric circuits?
- State the laws of reflection?

Section - B

- Define earthing and its importance.
- Which part of human body vibrates to produce sound (our voice)?
- Give an example to show that friction increases if the two surfaces are pressed harder?

Section -C

- Write in short about
Ursa Major
Orion
- Differentiate between moon and stars?
- Discuss the reasons for the increase in the quantity of carbon dioxide in air?
- Define light .Discuss its importance?
- Describe greenhouse effects?
- What are the ways to charge a body?
- Explain why it is difficult to move on wet floor?
- State True or False.
 - Force per unit area is called pressure.
 - Solids and liquids exert pressure on the walls of their container.
 - Force has only magnitude.
- How is sound produced?
- Define the terms
 - Adolescence and
 - Puberty.
- Explain solar system along with the sketch of the same?
- Refractive index of glass is 2.0 and that of water is 1.0. If the speed of light in water is 2.5×10^8 m/s. What is the speed of light in glass?

Section - D

- Adolescence is also a period of change in a person's way of thinking. Justify the statement?
- Justify that the liquids and gases exert pressure on the walls of container in all direction?
- An echo returned in 4 s. What is the distance of the reflecting surface from the source, given that the speed of sound is 320 m s^{-1} ?

22. Write the characteristics of ideal fuel and give some examples?
23. Differentiate between kharif and rabi crops?
24. Explain all the tools used for agricultural activities?

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