

**SECTION – A****10 X 2 = 20 marks****60 Marks**

1. Mention any two occupational respiratory disorders and their causes in human beings.
2. Name the valves that guard the left and right atrioventricular apertures in man.
3. What is triad system?
4. What is organ of Corti?
5. Which hormone is commonly known as fight and flight hormone?
6. Differentiate between perforins and Granzymes.
7. What is 'Amniocentesis'? Name any two disorders that can be detected by amniocentesis.
8. Define spermiogenesis and spermiation.
9. What is apiculture?
10. What is electrocardiography? What are the normal components of ECG?

**SECTION – B****6 X 4 = 24**

11. Describe the process of digestion of proteins in the stomach.
12. Explain the process of inspiration and expiration under normal conditions.
13. Draw a labelled diagram of the T.S. of spinal cord of man.
14. Write short notes on Immunoglobulins.
15. Describe the genic balance theory of sex determination.
16. Distinguish between homologous and analogous organs
17. Explain Darwin's theory of Natural Selection with industrial melanism as an experimental proof.
18. Explain the different types of cancers.

**SECTION – C****2 X 8 = 16**

19. Describe the structure of the heart of man with the help of neat labelled diagram.
20. Describe human female reproductive system . Draw a labelled diagram.
21. Describe the chromosomal theory of sex determination.