

14/05/19

[Time: 3 Hours]

[Marks: 80]

Please check whether you have got the right question paper.

- N.B:
1. Question no. 1 is compulsory.
 2. Answer any 3 out of remaining 5 questions.
 3. Figures on the right indicate full marks.
 4. Draw appropriate diagrams wherever necessary.



- Q.1 Attempt any Four
- a) How is blood grouping done? Give the table of Compatibility. 05
 - b) Sketch the graph of Lung Volume Capacities and explain the terminologies. 05
 - c) What do you mean by Endocrine system? List various Endocrine glands and their secretions. 05
 - d) Differentiate between sympathetic and Parasympathetic Nervous System. 05
- Q.2
- a) Describe Polarization and Depolarization of Cell. 10
 - b) In detail explain composition of Blood. 10
- Q.3
- a) Sketch the microscopic structure of Nephron and mention its working. 10
 - b) Describe the process of Micturition. 05
 - c) What are the functions of Bile in digestive system? 05
- Q.4
- a) With a neat labelled diagram of a typical Human Cell, describe functioning of major cell Organelles. 10
 - b) Describe the process of Exchange of gases in Alveoli. 10
- Q.5
- a) Describe the Conduction system of Heart. Define Cardiac Output and Stroke Volume. 10
 - b) Explain the reflex action and Reflex Arc. 10
- Q.6 Write short notes on (Any 4)
- a) Heart Valves. 05
 - b) Structure of Middle Ear. 05
 - c) Formation of Image on Retina. 05
 - d) Homeostasis. 05
 - e) Blood Pressure. 05
