

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions from Q. Nos. 2 to 6.
(3) Draw diagrams wherever **necessary**.
1. (a) Explain composition and function of blood.
(b) Write short note on erythropoiesis.
 2. (a) Classify tissue. Explain in detail epithelial tissue.
(b) Write short note on any **one** :-
(i) mitochondria (ii) endoplasmic reticulum
 3. (a) Explain the composition of cell membrane and its functions.
(b) Write a short note on passive transport of substances across the plasma membrane
 4. (a) Explain the formation and composition of lymph.
(b) Write short notes on any **two** :-
(i) Lymph node (ii) Spleen (iii) Edema.
 5. (a) Anatomy and physiology of neuromuscular junction.
(b) Explain the physiology of skeletal muscle contraction.
(c) Draw and label a simple muscle curve.
 6. Write notes on any **four** :-
 - (a) Nutritional deficiency anaemia
 - (b) Significance of R_H factor
 - (c) Classification of WBCS
 - (d) Process of clotting
 - (e) Myasthenia graves
 - (f) Rigor mortis.
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