

THE NORTHERN DISTRICT SCHOOL OF NURSINGANATOMY & PHYSIOLOGY TEST PAPERFIRST YEAR BLOCKGROUP A.15.11.62Allow 2½ Hours

IMPORTANT - Read your questions carefully. Answer only what is asked as no marks will be given for irrelevant material.

1. A. State the total volume of blood in the average adult. 1 mark.
 B. State the proportion of cells to plasma. 1 mark.
 C. State the number and functions of the red blood cells. 2 marks.
 D. State the number and functions of the white blood cells. 2 marks.
 E. State the number and functions of the platelets. 2 marks.
 F. Where are the plasma proteins formed? 1 mark.
 G. Which part of the blood carries nutritives to the tissue cells? 1 mark.
2. A. What structures are found at the hilum of the lung and what are their functions? 10 marks.
 B. What is the role of the diaphragm in respiration? 4 marks.
 C. Describe external respiration. 6 marks.
3. Discuss the digestion absorption and utilisation of fat in the body. 5 marks.
4. Where are the following muscles found in the body:-
 A. Pectoralis major
 B. Gluteus maximus
 C. Sterno mastoid
 D. Transversalis
 E. Deltoid. 5 marks.
5. A. What is meant by a serous membrane? 2 marks.
 B. Name 3 serous membranes found in the body. 3 marks.
6. A. Give 3 examples of where the main groups of lymph nodes are found in the body. 3 marks.
 B. What are the two main functions of lymph nodes? 2 marks.
7. Discuss briefly the clotting process of the blood. 10 marks.
8. Discuss briefly the means taken to prevent food contamination in a hospital ward using the following headings:-
 A. Storage
 B. Distribution
 C. Disposal of waste 10 marks.
9. Where are the following structures found in the body:-
 A. A villus
 B. Peyer's patches
 C. Cisterna Chyli
 D. Ileo caecal valve
 E. Epiglottis 10 marks.
10. A. Name the bones which form the thoracic cage. 3 marks.
 B. What bones form the shoulder girdle. 2 marks.
 C. Name the bones of the arm and hand. 5 marks.