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ANATOMY, PHYSIOLOGY AND HYGIENE PAPER.

VICTORIAN NURSING COUNCIL

Nurses Act 1958

First Professional Examination

5TH AND 6TH DECEMBER, 1962

ANATOMY, PHYSIOLOGY AND HYGIENE PAPER

Time allowed: Two and a half hours

Important.—Read your questions very carefully.

Answer only what is asked as no marks will be given for irrelevant material.

Use relevant diagrams wherever possible.

All questions to be answered.

1. (a) State the main differences in structure and function between an artery and a vein. —[6 marks.]
(b) Through what vessels does blood pass from the heart to the foot? —[4 marks.]
—[10 marks.]
2. (a) How can water become contaminated? —[3 marks.]
(b) How can such water be made fit for drinking? —[4 marks.]
(c) Name three (3) diseases which are spread by contaminated water. —[3 marks.]
—[10 marks.]
3. For what purposes are the following substances used in the body?
Name one important dietary source of each substance:—
(a) protein; —[2 marks.]
(b) fat; —[2 marks.]
(c) vitamin C; —[2 marks.]
(d) calcium; —[2 marks.]
(e) iron. —[2 marks.]
—[10 marks.]
4. Name the three (3) main types of blood cells. State where they are produced and the functions of each. —[9 marks.]
To what pigment is the normal colour of blood due? —[1 mark.]
—[10 marks.]
5. (a) What are the three (3) types of muscle tissue? —[3 marks.]
(b) Where are they found in the body? —[3 marks.]
(c) In what bodily functions do the muscles of the abdominal wall play a part? —[4 marks.]
—[10 marks.]
6. (a) Describe with the aid of a diagram the structure of a synovial joint. —[6 marks.]
(b) Name two (2) ball-and-socket joints. —[2 marks.]
(c) Name two (2) hinge joints. —[2 marks.]
—[10 marks.]
7. State two functions of each of the following:—
(a) cerebral cortex; —[2 marks.]
(b) cerebellum; —[2 marks.]
(c) medulla oblongata; —[2 marks.]
(d) cerebro-spinal fluid; —[2 marks.]
(e) vertebral column. —[2 marks.]
—[10 marks.]

8. (a) What is the composition of normal urine? —[4 marks.]
(b) What is the specific gravity of normal urine? —[1 mark.]
(c) What is the normal daily output of urine? —[1 mark.]
(d) State four (4) factors which increase the urinary output. —[4 marks.]
—[10 marks.]
9. State five (5) functions of the liver. —[5 marks.]
10. Name five (5) functions of the skin. —[5 marks.]
11. Describe briefly the processes of exchange of gases in the lungs. —[5 marks.]
12. Name a hormone which plays a part in:—
(a) carbohydrate metabolism;
(b) reabsorption of water from renal tubules;
(c) skeletal growth;
(d) development of secondary sex characteristics;
(e) rise of blood pressure. —[5 marks.]