

TAMIL NADU BOARD EXAMINATION IN GENERAL NURSING
AND MIDWIFERY — FIRST YEAR

(NEW SYLLABUS — 3½ years)

Diploma in General Nursing and Midwifery

November / December — 2010

PAPER-I — BIOLOGICAL SCIENCE
(Anatomy, Physiology and Microbiology)

Time—Three hours

(Maximum marks: 75)

- [N.B.— (1) Answer *all* questions.
(2) Draw diagrams wherever necessary.]

Marks.

I. Define the following

5 x 1 = 5

- Immunity
- Metabolism
- Menarche
- Carrier
- Homeostasis

II. Fill in the blanks with suitable words

5 x 1 = 5

- Autoclave is a device that uses steam to _____ equipment and other objects.
- The _____ is a closed sac of serous membrane (one for each lung).
- The diaphragm is separating the _____ and abdominal cavities.
- The covering of the brain and spinal cord is called _____
- _____ is the method of sterilizing the milk.

III. Match the following

5 x 1 = 5

- A
- Culture media
 - Aerobe
 - WBC
 - Rh Factor
 - Vaccine

- B
- Antigen
 - Leucocytes
 - Lymph preparation
 - Oxygen
 - Agar

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Turn over

IV. Choose the correct answer 5 x 1 = 5

1. The insulin is secreted from _____
a) Spleen b) pancreas c) Liver
2. The act of passing urine is called _____
a) excretion b) micturation c) defaecation
3. The cardiac muscle is a _____
a) voluntary b) involuntary c) both
4. The speech centre is situated in _____
a) occipital lobe b) frontal lobe c) parietal lobe
5. AIDS is caused by _____
a) Retro virus b) Herpes virus c) H1N1

V. Answer any three of the following 3 x 10 = 30

- a. Flow of blood through the heart.
- b. Functions of the liver.
- c. Microscopic structure of the kidney and its function.
- d. Explain the structure of the uterus.

VI. Write short notes on any five of the following 5 x 5 = 25

- a. Cycle of respiration.
- b. Cardiac muscle.
- c. Draw the diagrams of different types of bacterium.
- d. Functions of the skin
- e. Explain the coagulation of the blood
- f. Physiology of hearing.