

TAMIL NADU BOARD OF EXAMINATION IN GENERAL NURSING
AND MIDWIFERY - FIRST YEAR

NEW SYLLABUS — 3 ½ years

JULY / AUGUST -2015

PAPER-I- BIOLOGICAL SCIENCES
(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

- Anatomy
- Cardiac Cycle
- Joint
- Diaphragm
- Tidal Volume.

II. Fill in the blanks with suitable words:—

5 x 1 = 5

- Trypsinogen enzyme secreted by _____
- The first half of menstrual cycle is called _____
- The immunity developed by birth is called natural acquired _____
- "C" shaped cartilaginous rings are present in _____
- Spindle shaped muscle cells are present in _____ muscles.

III. Match the following:—

5 x 1 = 5

- | A | B |
|-----------------|------------------|
| a) Mitochondria | — 1) UV rays |
| b) Buccinator | — 2) Prolactin |
| c) Melanin | — 3) Power house |
| d) Bright Light | — 4) Mouth |
| e) Lactation | — 5) Cones |

Marks

5 x 1 = 5

IV. Choose the correct answer:—

- a) Zoonotic diseases means
- i) Infection of transmission through the insects
 - ii) Transmission of infections from water
 - iii) Transmission of infections from food
 - iv) Infection transmitted from animals to man
- b) Which types of ribs are directly attached to the sternum
- i) True ribs ii) Floating ribs iii) False ribs iv) Direct ribs
- c) The capacity of gall bladder is around
- i) 150ml ii) 250ml iii) 50ml iv) 500ml
- d) The hormones secreted by posterior pituitary is
- i) LH ii) FSH iii) Vasopressin iv) Growth hormone
- e) Fluid present in the internal ear is
- i) Perilymph ii) Lymph iii) CSF iv) Serum

V. Write short notes on **any five** of the following:—

5 x 5 = 25

- a) Write about the structure size, shape, classification of bacteria and explained it?
- b) List out the functions of blood
- c) Describe the structure of brain
- d) Explain about joints and types
- e) Write the structure of skin
- f) Write the structure and functions of thyroid gland.

VI. Answer **any three** of the following:—

3 x 10 = 30

- a) Draw the structure of the eye ball and describe the functions.
- b) Write the different part of the digestive system.
- c) Define sterilization and explain the types of sterilization in details.
- d) Draw the structure of heart and write the conducting system of heart.