

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

Regular/ Supplementary - 3 ½ years

JULY / AUGUST—2016

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

- (a) Anatomy
- (b) Periostium
- (c) Ovulation
- (d) Micturition
- (e) Myology.

II. Fill in the blanks with suitable words:—

5 x 1 = 5

- (a) Inflammation of the parotid gland _____
- (b) The covering of the lung is _____ .
- (c) The _____ is the main artery in the body.
- (d) The only movable bone in the skull is _____
- (e) The biting and grinding of food is known as _____.

III. Match the following:—

5 x 1 = 5

A

B

- | | |
|--------------------------|---------------------------------------|
| (a) Hypothalamus | 1) Insulin |
| (b) Islets of Langerhans | 2) 120 days |
| (c) Patella | 3) Middle Ear |
| (d) Life span of RBC | 4) Sesamoid bone |
| (e) Eustachian Tube | 5) Regulation of the body Temperature |
| | 6) Flat bone |

IV. Choose the correct answer:—

(a) The blood vessel that supplies the brain is called

- (i) Carotid Artery (ii) Cerebral Artery
(iii) Hepatic Artery (iv) Vertebral Artery

(b) The longest bone in the lower extremity is

- (i) Humerus (ii) Clavicle (iii) Femur (iv) Tibia

(c) Anterior fontanellae normally closes at the age of

- (i) 18 months (ii) 16 months (iii) 12 months (iv) 8 months

(d) The right lung has

- (i) 2 lobes (ii) 3 lobes (iii) 4 lobes (iv) 1 lobe

(e) Principle organ of Respiration is

- (i) Heart (ii) Kidney (iii) Brain (iv) Lungs

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

5 x 5 = 25

- (a) Draw the diagram of Brain and mark the parts.
(b) Explain the varieties of Synovial Joints.
(c) Collections of Specimen
(d) Diaphragm
(e) Draw the structure of the Cell.
(f) Classification of Bones.

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

3 x 10 = 30

- (a) How will you classify the bacteria depending on shape and arrangement?
(b) Draw the Alimentary tract and explain the functions of the Stomach.
(c) Draw the structure of the Ear and explain the physiology of Hearing.
(d) Draw the structure of the Skin and write the functions of the Skin.
