

**TAMILNADU BOARD EXAMINATION IN
GENERAL NURSING AND MIDWIFERY**

**Diploma in General Nursing and Midwifery
(New Syllabus – 3 ½ years)**

MAY/JUNE 2011

**First year – PAPER I – Biological Science
(Anatomy, Physiology and Microbiology)**

Time: 3 hours

Maximum marks: 75

[N.B: Answer all questions]

I. DEFINE THE FOLLOWING:

5x1=5

- a) Immunity
- b) Carrier
- c) Hormone
- d) Basal Metabolic Rate
- e) Micturition

II. FILL IN THE BLANKS WITH SUITABLE WORDS:

5x1=5

- a) Insulin is secreted by
- b) The pacemaker of the heart is
- c) Is the covering of the lungs.
- d) The heat regulating centre of our body is
- e) The speech centre is known as.....

III. MATCH THE FOLLOWING:

5x1=5

- | A | B |
|----------------------|------------------------------|
| 1. Act of swallowing | (a) Right iliae fossa |
| 2. Haematocrit | (b) Middle ear |
| 3. Appendix | (c) Largest bone of the foot |
| 4. Eustachian Tube | (d) Deglutition |
| 5. Calcaneum | (e) Spleen |
| | (f) Packed cell volume |

Turn over

IV. CHOOSE THE CORRECT ANSWER:

- (a) The first cervical vertebrae is
1. Axis 2. Atlas 3. Lumbar 4. Sacrum
- (b) The respiratory system is lined by
1. Squamous epithelium 2. Cuboidal epithelium
3. columnar epithelium 4. Ciliated epithelium
- (c) The only movable bone in the skull is
1. maxilla 2. frontal 3. mandible 4. temporal
- (d) The gland which lies at the base of the skull is
1. Thymus 2. Pituitary 3. Thyroid 4. Adrenal
- (e) The absorption of digested food takes place entirely in the
1. Stomach 2. Duodenum 3. Small intestine 4. Large intestine

V. ANSWER ANY THREE OF THE FOLLOWING:

3x10=30

- a) Draw the diagram of the eye with the parts and explain the function of the eye
- b) Enumerate the composition of blood and explain the function of the blood.
- c) Describe the role nurse in prevention of cross infection in a surgical ward.
- d) Draw the diagram of alimentary tract, name the parts and explain the function of the stomach.

VI. WRITE SHORT NOTES ON ANY FIVE OF THE FOLLOWING 5X5=25

- a) Functions of the skin.
- b) Process of pasteurization.
- c) Systemic Circulation.
- d) Liver and its functions.
- e) Cranial nerves and their functions.
- f) Synovial joint