

**DIPLOMA IN GENERAL NURSING AND MIDWIFERY - FIRST YEAR  
EXAMINATION, MARCH 2019  
NEW SYLLABUS**

**PAPER I – BIO SCIENCE, ANATOMY AND PHYSIOLOGY INCLUDING  
MICROBIOLOGY**

Time: Three hours

Maximum marks: 75

- Note:** 1. Answer all the questions.  
2. Draw diagrams wherever necessary  
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**I. Define the following**

**5 x 1= 5**

- a) Anatomy
- b) Lymph node
- c) Neurone
- d) Immunity
- e) Mastication

**II. Fill in the blanks with suitable words**

**5 x 1= 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 .Choose the correct answer**

**5 x 1= 5**

- (a) The first cervical vertebrae is  
1. Axis      2. Atlas      3. Lumbar      4. Sacrum
- (b) Father of microbiology  
1. Joseph Lister      2. Alexander Fleming  
3. Antonyvan Leuvanhack      4.Sathish Gupta
- (c) The covering of brain and spinal cord is  
1. Pericardium      2. Meninges  
3. Peritoneum      4.Periosteum
- (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

....2/-

**IV. Match the following**

**5 x 1 = 5**

- A**
- 1 Act of swallowing
  - 2 Haematocrit
  - 3 Appendix
  - 4 Eustachian Tube
  - 5 Calcaneum

- B**
- (a) Right iliac fossa
  - (b) Middle ear
  - (c) Largest bone of the foot
  - (d) Deglutition
  - (e) Spleen
  - (f) Packed cell volume

**V. Write short notes on any FIVE of the following**

**5 x 5 = 25**

1. Functions of the liver
2. Write the varieties of synovial joint
3. Explain the factors influencing the growth of micro organism
4. Menstrual cycle
5. List out the cranial nerves and their functions
6. Write briefly about the Thyroid gland

**VI. Answer any THREE of the following**

**3 x 10 = 30**

1. Draw a neatly labelled diagram of the heart and discuss its structure.
2. Draw the respiratory tract and explain the physiology of respiration.
3. Draw a diagram of eye with the parts and explain the functions of eye.
4. Draw a diagram of nephron and explain the structure of nephron.

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