

**KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD**  
**GNM SUPPLEMENTARY EXAMINATION - February 2015**  
**1<sup>st</sup> Year Paper – I Bio-Science { Anatomy, Physiology and Microbiology }**  
**[Note: Draw diagrams wherever necessary]**

Time: 3 hours

Max. Marks:75

**SECTION-I**

**I. Give the Meaning of the following** **1x4=4**  
 a) Abduction      b) Cytology      c) Enzyme      d) Hypersensitivity

**II. Fill in the Blanks** **1x4=4**  
 a) Blood vessels which carry blood away from the heart to different parts of the body are called \_\_\_\_\_  
 b) \_\_\_\_\_ nerve is the first cranial nerve of our body  
 c) \_\_\_\_\_ is called as the voice box of human body  
 d) The main artery in the human body is \_\_\_\_\_

**III. Write short notes on any FOUR of the following** **4x4=16**  
 a) Structure of Trachea      b) Structure of Neuron      c) Sources of infection  
 d) Ball and socket joint      e) Structure of the Ear.

**IV. a) Define Respiration.** **1+2+4=7**  
 b) List the organs of respiratory system  
 c) Explain the structure of Lungs with labeled diagram.

**V. a) Name the organs of female reproductive system** **2+5=7**  
 b) Describe the structure of Uterus with a neat labeled diagram.

**SECTION – II**

**VI. State whether the following statements are TRUE or False** **1x3=3**  
 a) Tetanus is caused by clostridium tetani.  
 b) Neuron is the functional unit of Kidney.  
 c) The mediastinum is the space between the two pleural sacs in the Thorax.

**VII. Choose the correct answer and write** **1x4=4**  
 a) The body power to resist infection is called \_\_\_\_\_  
     i) Infection      ii) Hypersensitivity      iii) Immunity  
 b) Axon is covered by a membrane called \_\_\_\_\_  
     i) Meninges      ii) Axolemma      iii) Serous membrane  
 c) The thoracic cage consists of  
     i) 12 pairs of ribs      ii) 7 pairs of ribs      iii) 11 pairs of ribs  
 d) Endocrine glands secrete  
     i) Enzymes      ii) C.S.F.      iii) Hormones

**VIII. Write short notes on any FOUR of the following** **4x4=16**  
 a) Pulmonary Circulation      b) Conducting system of Heart  
 c) Menstrual cycle      d) Functions of Cerebro Spinal Fluid  
 e) Functions of the Skin.

**IX. a) Define Sterilization** **2+5=7**  
 b) Explain the different methods of Sterilization

**X. a) Draw a neat labeled diagram of Heart.** **4+3=7**  
 b) Explain the portal circulation.

