

KARNATAKA STATE DIPLOMA IN NURSING EXAMINATION BOARD  
FEBRUARY 2014 GNM SUPPLEMENTARY EXAMINATION  
1<sup>st</sup> year Paper – I Bio-Science (Anatomy, Physiology and Microbiology)  
[Note: Draw diagrams wherever necessary]

Time: 3 hours

Max. Marks: 75

I. Give the meaning of the following terms

1x4=4

- a) Tissues      b) Metabolism      c) Osmosis      d) Fontanelles

II. Fill in the blanks

1x4=4

- a) \_\_\_\_\_ is the second cervical vertebra.  
b) \_\_\_\_\_ is the covering membrane of the nerve.  
c) \_\_\_\_\_ is the innermost layer of the Uterus.  
d) Buccinator muscle is present in \_\_\_\_\_.

III. Write short notes on any FOUR of the following

4x4=16

- a) Classification of Joints.  
b) Radius and Ulnar bone.  
c) Pathogenic and Non pathogenic organisms  
d) Prevention of Cross infection in the Hospital wards.  
e) Draw a neat diagram of Ear and Label its parts.

IV. a) Explain in detail about phase of cell division.  
b) Write about mitosis in detail.

4+3=7

V. a) List the organs of Digestive system.

2+5=7

- b) Draw a neat diagram of stomach and label its parts and describe.

SECTION – II

VI. State whether the following statements are TRUE or FALSE

1x3=3

- a) Veins carry oxygenated blood away from the Heart  
b) Iron part of Haemoglobin is known as Hame.  
c) Temporary arrest of breathing is called Dyspnoea.

VII. Fill in the blanks

1x4=4

- a) Eyelids protect Eye from \_\_\_\_\_ light.  
b) Muscle cells are specialized from \_\_\_\_\_  
c) \_\_\_\_\_ is the functional unit of the Kidney.  
d) \_\_\_\_\_ is the respiratory organ.

VIII. Write short notes on any FOUR of the following

4x4=16

- a) Portals of entry and exit of Microbes.  
b) ABO blood group  
c) Steam sterilization.  
d) Systemic circulation  
e) Physiology of Hearing.

IX. a) Draw a neat diagram of Heart and label its parts.  
b) List the blood supply and nerve supply to Heart.

4+3=7

X. a) What is endocrine gland?

2+5=7

- b) Write the structure and functions of suprarenal glands.

OR

Write the structure and explain functions of liver.