

**DIPLOMA IN GENERAL NURSING AND MIDWIFERY - FIRST YEAR  
EXAMINATION, FEBRUARY, 2025  
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. MULTIPLE CHOICE QUESTIONS**

**(20 x 1 = 20)**

1. The study of Visceral Organs is known as  
a. Cytology   b. Physiology   c. Splanchnology   d. Osteology
2. Name the tissue which is widely and abundantly distributed in human body  
a. Connective tissue   b. Cartilaginous tissue   c. Lymphoid tissue   d. Epithelial tissue
3. First cervical vertebrae is  
a. Axis   b. Atlas   c. Lumbar   d. Sacrum
4. The main function of haemoglobin is to  
a. Maintain normal erythrocyte sedimentation rate.  
b. Neutralize any free radicals circulating in the blood  
c. Bind to oxygen and transport it to the tissues  
d. Absorb heat generated as a by- product of cell metabolism
5. Pepsin converts protein to  
a. Fatty Acid   b. Glucose   c. Amino acid   d. Fructose
6. Blood cells which is responsible for coagulation is  
a. RBC   b. WBC   c. Platelet   d. Neutrophil
7. Mitral valve is also known as  
a. Bicuspid valve   b. Tricuspid valve   c. Tetracuspid valve   d. Monocuspid
8. Largest artery is  
a. Aorta   b. Carotid   c. Coronary   d. Femoral
9. Cardiac sphincter is situated at  
a. Heart   b. Pylorus   c. End of oesophagus   d. End of stomach
10. The synthesis of bile occurs in the  
a. Liver   b. Gall bladder   c. Pancreas   d. Duodenum
11. In which position a person is lying on his back with the hips and knees flexed and thighs apart?  
a. Supine position   b. Prone position   c. Anatomical position   d. Lithotomy position
12. The functional unit of kidney is called  
a. Bowman's Capsule   b. Malpighian corpuscles   c. Pyramid   d. Nephron

**(P.T.O)**

13. Milk ejecting hormone is  
a. Prolactin b. Oxytocin C. Progesterone d. Estrogen
14. The glands of the endocrine system  
a. Secrete hormones into blood  
b. Secrete hormones into ducts  
c. Usually have a poor blood supply  
d. Only produce mucus
15. Outermost layer of meninges is  
a. Duramater b. Piamater c. Arachnoid mater d. Choroid plexuses
16. CSF secreted from  
a. Choroid plexuses b. Arachnoid villi c. Anterior horn of lateral ventricle d. Aqueduct
17. Loss of sense of smell is called as  
a. Anhedonia b. Anosmia c. Anoxia d. Aphasia
18. Semicircular canals are present in  
a. Outer ear b. Middle ear c. Cochlea d. Inner ear
19. Longest bone is  
a. Tibia b. Femur c. Fibula d. Humerus
20. The outer most layer of the skin is known as  
a. Cutaneous b. Subcutaneous c. Dermis d. Epidermis

**II Write short notes on any FIVE of the following**

**(5 x 5 = 25)**

1. Structure of Bacteria
2. Functions of liver
3. Types of bones
4. Methods of sterilization
5. Types of tissues
6. Systemic circulation

**III. Answer any THREE of the Following**

**(10 x 3 = 30)**

1. Draw the structure of Brain and describe in detail its functions.
2. Describe the factors influencing the growth of microorganism.
3. Describe the structure and functions of Stomach.
4. Draw the diagram of eye and write in detail about the structure of eye.

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