

**DIPLOMA IN GENERAL NURSING AND MIDWIFERY - FIRST YEAR
EXAMINATION, MARCH 2022
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

I. Define the following 5 x 1 = 5

- a) Cardiac cycle
- b) Mitosis
- c) Enzymes
- d) Pathogenesis
- e) Immunity

II. Fill in the blanks with suitable words 5 x 1 = 5

- a) The functional and structural unit of nervous system is -----.
- b) The innermost layer of the eye is -----.
- c) ----- is a cup shaped cavity articulates with the femur bone.
- d) ----- is the covering membrane of the bone.
- e) The suicidal bags of the cell are-----.

III. Match the following 5 x 1 = 5

	A		B
1	Islets of Langerhans	a	Stensen's duct
2	Sartorius	b	Insulin
3	Parotid gland	c	Sesamoid bone
4	Tonsils	d	Largest muscle
5	Patella	e	Lymphoid tissue

IV. Choose the correct answer

5 x 1 = 5

- (a) The anatomical term used for nearer to the trunk or point of origin is
(1) Distal (2) Lateral (3) Proximal (4) Dorsal

- (b) The shape of the body of thoracic vertebrae is
(1) Kidney (2) Heart (3) Triangular (4) Round

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- (c) The suture running between the frontal bone and two parietal bone is
(1) Sagittal (2) Coronal (3) Metopic (4) Lambdoid
- (d) The right lung has
(1) Three lobes (2) Four lobes (3) One lobe (4) Two lobes
- (e) Rod shaped bacteria is classified as
(1) Cocci (2) Bacilli (3) Spirochaetes (4)
Actinomycetes

V. Write short notes on any FIVE of the following 5 x 5 = 25

- 1) Functions of liver
- 2) Conducting system of the heart
- 3) Menstrual cycle
- 4) Structure of nephron.
- 5) Pituitary gland
- 6) Factors affecting the growth of microorganism.

VI. Answer any THREE of the following 3 x 10 = 30

- 1) Describe the structure of Ear and the physiology of hearing.
- 2) Classify the methods of sterilization and explain about moist heat sterilization.
- 3) Describe the structure and functions of skin.
- 4) Write the composition of blood and explain the coagulation of blood.
