

**DIPLOMA IN GENERAL NURSING AND MIDWIFERY - FIRST YEAR
EXAMINATION, SEPTEMBER 2021
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

5x1=5

- a. Ovulation
- b. Nephron
- c. Physiology
- d. Immunity
- e. Cell

II Fill in the blanks with suitable words

5x1=5

- a. The kidney lies on the ----- abdominal wall
- b. The pacemaker of the heart is -----
- c. The largest endocrine gland is -----
- d. Most reliable and commonly used method of sterilization is -----
- e. The only movable bone in the skull is -----

III Choose the correct answer

5x1=5

- a. Sella turcica contains _____
1. Adrenal glands 2. Pituitary gland 3. Thyroid gland 4. Thymus gland
- b. The principle organ of focus in the eye is
1. Pupils 2. Lens 3. Retina 4. Macula
- c. The largest artery in the body is
1. Subclavian artery 2. Abdominal artery 3. Aorta 4. Iliac artery
- d. Power house of human body is
1. Nucleus 2. Ribosome 3. Mitochondria 4. Lysosome
- e. Largest muscle in the body
1. Biceps 2. Triceps 3. Sartorius 4. Quadriceps

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IV. Match the following

5x1=5

A

1. Bile
2. Osteoblast
3. Micturition
4. Act of swallowing
5. Pulmonary artery

B

1. Deglutination
2. The act of passing urine
3. Digestion of fat
4. Lung
5. Building of bone

V. Write short notes on any five of the following

5x5= 25

1. Systemic circulation
2. Hummers
3. Sterilization
4. Uterus
5. Classification of bones
6. Eye

VI. Answer in details any three of the following

3x10=30

1. Draw the diagram of lungs and explain the physiology of respiration
2. Write the composition of the blood and explain the coagulation of blood
3. Draw the structure of heart and explain in detail
4. Draw the diagram of kidney and explain its functions
