

**DIPLOMA IN GENERAL NURSING AND MIDWIFERY - FIRST YEAR
EXAMINATION, OCTOBER 2019
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) Physiology
- b) Menarche
- c) Cardiac output
- d) Glomerular filtration rate
- e) Hormone

II. Fill in the blanks with suitable words

5 x 1= 5

- a) _____ is a partly exocrine and partly endocrine gland in our body.
- b) _____ is an example of flat bone.
- c) Normal platelet count is _____.
- d) Functional and structural unit of the nervous system is _____.
- e) _____ is the first part of the large intestine.

III. Choose the correct answer

5 x 1= 5

- (a) Only movable bone in the skull is
 - 1. Parietal bone
 - 2. Temporal bone
 - 3. Frontal bone
 - 4. Mandible
- (b) Milk ejection from mammary gland is assisted by
 - 1. Oxytocin
 - 2. Prolactin releasing hormone
 - 3. Vasopressin
 - 4. Follicular stimulating hormone
- (c) The thoracic cavity is separated from the abdominal cavity by
 - 1. Mediastinum
 - 2. Peritonium
 - 3. Diaphragm
 - 4. Pleura
- (d) The largest accessory gland of male reproductive system is
 - 1. Prostate gland
 - 2. Thyroid gland
 - 3. Pituitary gland
 - 4. Adrenal gland
- (e) The largest artery in the body is
 - 1. Subclavian artery
 - 2. Abdominal artery
 - 3. Aorta
 - 4. Iliac artery

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IV. Match the following

5 x 1 = 5

- | A | B |
|-------------------|----------------------------|
| 1 Spleen | (a) UV rays |
| 2 T lymphocytes | (b) Synovial joint |
| 3 Patella | (c) Cell mediated immunity |
| 4 Melanin | (d) Middle ear |
| 5 Eustachian tube | (e) Lymphoid tissue |

V. Write short notes on any FIVE of the following

5 x 5 = 25

1. Discuss about nosocomial infections.
2. Draw the structure and write about the functions of pituitary gland.
3. Explain about general circulation of heart with suitable diagram.
4. Classification of bones.
5. Draw the diagram of the skin and explain
6. List out the cranial nerves and their functions

VI. Answer any THREE of the following

3 x 10 = 30

1. Write the components of blood and its functions.
2. Define sterilization and explain the types of sterilization in detail.
3. Draw a diagram of the respiratory system and write in detail about the physiology of respiration.
4. Draw the structure of the ear and explain the physiology of hearing.
