

Reg. No:

**First Semester B.Sc Nursing Degree Regular/Supplementary
Examinations April 2025
Paper II – Applied Anatomy and Applied Physiology
(2021 Scheme)**

Time: 3 Hrs

Total Marks: 75

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw diagrams wherever necessary

Section A – Applied Anatomy

Q.P. CODE: 122010

Max. Marks: 37

1. Multiple Choice Questions

(6x1=6)

(choose the most appropriate answer from the options given)

The Answers to MCQ questions (Q.No. i to Q.No. vi) shall be written continuously on the first writing sheet (ie Page No.3) only

- Apex of the heart is formed by
 - Right atrium
 - Right ventricle
 - Left atrium
 - Left ventricle
- White pulp and red pulp is seen in
 - Liver
 - Lymph node
 - Spleen
 - Pancreas
- Thickest layer in the wall of arteries is
 - Tunica adventitia
 - Tunica intima
 - Tunica vasculosa
 - Tunica media
- Accessory pancreatic duct opens into
 - Major duodenal papilla
 - Minor duodenal papilla
 - Fungiform papilla
 - Circumvallate papilla
- All of the following structures form stomach bed EXCEPT
 - Body of pancreas.
 - Splenic artery
 - Right crus of diaphragm
 - Transverse mesocolon
- Hormone secreted by pars -anterior of pituitary gland
 - Oxytocin
 - Growth hormone
 - Vasopressin
 - Melanocyte stimulating hormone

Essay

(1x10=10)

2. Name any four endocrine organs. Describe thyroid gland in detail

(2+8)

Short notes

(3x5=15)

3. Lateral wall of nose

4. Testis

5. Thoracoabdominal diaphragm

Differentiate between

(3x2=6)

6. Hyaline cartilage and Elastic cartilage

7. Small intestine and Large intestine

8. Right and Left ventricle

(PTO)

Section B – Applied Physiology

Q.P. CODE: 123010

Max. Marks: 38

1. Multiple Choice Questions (7x1=7)

(choose the most appropriate answer from the options given)

The Answers to MCQ questions (Q.No. i to Q.No. vii) shall be written continuously on the first writing sheet (ie Page No.3) only

- i. Deficiency of Vitamin D leads to
 - a) Scurvy
 - b) Nyctalopia
 - c) Beri beri
 - d) Rickets
- ii. Insulin is released from which cells of islets of pancreas
 - a) Alpha
 - b) Beta
 - c) Delta
 - d) None
- iii. Thrombocytopenia leads to
 - a) Recurrent infections
 - b) Bleeding tendency
 - c) Reduced oxygen carrying capacity
 - d) Allergy
- iv. Mass peristalsis occurs in
 - a) Stomach
 - b) Jejunum
 - c) Ileum
 - d) Colon
- v. Baro-receptor reflex arises from
 - a) Carotid body
 - b) Carotid sinus
 - c) Atrial wall
 - d) Afferent arteriole
- vi. Testosterone is produced by which cells
 - a) Sertoli cells
 - b) Leydig cells
 - c) Theca cells
 - d) Spermatozoa
- vii. Which hypothalamic nucleus is concerned with circadian rhythm
 - a) Supra optic
 - b) Periventricular
 - c) Suprachiasmatic
 - d) Ventromedian

Essay (1x10=10)

2. Describe erythropoiesis with the help of neat, labelled diagram. Add a note on anaemia

(7+3)

Short notes (3x5=15)

3. Functions of growth hormone. Add a note on Acromegaly

(3+2)

4. Role of Surfactant. Add a note on periodic breathing

(3+2)

5. Glomerular Filtration Rate (GFR)

Give reasons for the following (3x2=6)

6. Mental retardation occurs in cretinism

7. Cardiac muscle cannot be tetanized

8. Neutrophil count increases in bacterial infection
