

# Applied anatomy...



- c) Classification of bones with example.
- d) Anatomical Position of Thyroid gland.

**4. Short Answer Questions (Solve any 3 Out of 4)**

[ $3 \times 2 = 6$ ]

- a) Factors necessary for erythropoiesis
- b) Heart sounds
- c) Describe the phases of gastric secretion
- d) Antidiuretic hormone

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**5. Long Answer Questions (Solve any 1 Out of 2) :-**

[ $1 \times 10 = 10$ ]

- a) i) Define synapse, write its classification & enumerate their properties  
ii) Describe the mechanism of synaptic transmission
- b) i) Describe phases of menstrual cycle  
ii) Discuss the hormonal control of menstrual cycle

**6. Short Answer Questions (Solve any 3 Out of 4) :-**

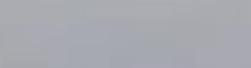
[ $3 \times 5 = 15$ ]

- a) Describe the functions of the hypothalamus
- b) Mechanism of blood pressure regulation
- c) Composition and function of saliva
- d) Puberty

**7. Short Answer Questions (Solve any 3 Out of 4) :-**

[ $3 \times 2 = 6$ ]

- a) Neuron
- b) Pelvic floor muscles
- c) Types of tissues
- d) Aorta & its branches



**SECTION-B**

- 2. Long Answer Questions: (Solve any one out of 2): [1×10=10]**
- Define joints. What are the types of joints? Describe the Shoulder joint in detail.
  - Enumerate the parts of the Digestive system. Discuss accessory organs of digestion.
- 3. Short Answer Questions : (Solve any 3 out of 4): [3×5=15]**
- Thyroid gland
  - Meninges of Brain
  - External features of kidney.
  - Trapezius muscle

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- 4. Short Answer Questions : (Solve any 3 out of 4): [3×2=6]**
- Peristalsis
  - Goitre
  - Stroke volume
  - R.B.C.

**SECTION-C**

- 5. Long Answer Questions : (Solve any 1 out of 2) [1×10=10]**
- Functions of Kidneys.
  - Explain in detail the various functions of the Liver.
- 6. Short Answer Questions : (Solve any 3 out of 4) [3×5=15]**
- Hormones of anterior pituitary.
  - Functions of Cerebellum.
  - Functions of pancreas.
  - Conducting system of heart.
- 7. Short Answer Questions : (Solve any 3 out of 4) [3×2=6]**
- Describe the structure of the renal capsule.
  - Explain parts of the male urethra.
  - Describe the Lobes of Liver.
  - Draw a well labelled diagram of transverse section of spinal cord.



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**First Semester B.Sc. Nursing Examination, (Phase-III) Winter - 2023****APPLIED ANATOMY & APPLIED PHYSIOLOGY (Paper-I)**

Total Duration : Section A + B + C = 3 Hours

Section B &amp; C Marks : 62

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**SECTION - B & SECTION - C**

- Instructions :**
- 1) Use **black ball point pen only.**
  - 2) Do not write anything on the **blank portion of the question paper.** If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) All questions are **compulsory.**
  - 4) The number to the right indicates **full marks.**
  - 5) Draw diagrams **wherever necessary.**
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answerbook for section B & C.

**SECTION-B****2. Long Answer Questions: (Solve any one out of 2): [1×10=10]**

- a) Define joints. What are the types of joints? Describe the Shoulder joint in detail.
- b) Enumerate the parts of the Digestive system. Discuss accessory organs of digestion.

**3. Short Answer Questions : (Solve any 3 out of 4): [3×5=15]**

- a) Thyroid gland
- b) Meninges of Brain
- c) External features of kidney.
- d) Trapezius muscle

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**4. Short Answer Questions : (Solve any 3 out of 4): [3×2=6]**

- a) Peristalsis
- b) Goitre
- c) Stroke volume
- d) R.B.C.

**SECTION-C****5. Long Answer Questions : (Solve any 1 out of 2) [1×10=10]**

- a) Functions of Kidneys.
- b) Explain in detail the various functions of the Liver.

**6. Short Answer Questions : (Solve any 3 out of 4) [3×5=15]**

- a) Hormones of anterior pituitary.
- b) Functions of Cerebellum.
- c) Functions of pancreas.
- d) Conducting system of heart.

**7. Short Answer Questions : (Solve any 3 out of 4) [3×2=6]**

- a) Describe the structure of the renal capsule.
- b) Explain parts of the male urethra.
- c) Describe the Lobes of Liver.



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[Total No. of Pages : 2]

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First Semester B.Sc. Nursing (2012) Examination, Winter - 2022

**APPLIED ANATOMY & APPLIED PHYSIOLOGY**

Total Duration : Section A+B = 3 Hours

Section B Marks : 62

**SECTION - B**

- Instructions :**
- 1) Use blue/black ball point pen only.
  - 2) Do not write anything on the blank portion of the question paper. Rough work should not be done on the Answer Sheets or anywhere on the Question Paper except the specific space provided for the rough work. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) All questions are compulsory.
  - 4) The number to the right indicates full marks.
  - 5) Draw diagrams wherever necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answer book for section B.

**2. Long Answer Questions (Solve any 1 Out of 2) :- [1 × 10 = 10]**

- a) Draw a neat labeled diagram of kidney, describe anterior & posterior relations and applied anatomy
- b) Describe stomach ,gross structure ,relations & applied anatomy.

**3. Short Answer Questions (Solve any 3 Out of 4) :- [3 × 5 = 15]**

- a) Biceps brachii muscle.
- b) Structure of skin.
- c) Classification of bones with example.
- d) Anatomical Position of Thyroid gland.

**4. Short Answer Questions (Solve any 3 Out of 4) [3 × 2 = 6]**

- a) Factors necessary for erythropoiesis
- b) Heart sounds
- c) Describe the phases of gastric secretion
- d) Antidiuretic hormone

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**5. Long Answer Questions (Solve any 1 Out of 2) :- [1 ×**

- a) i) Define synapse, write its classification & enumerate their p  
ii) Describe the mechanism of synaptic transmission
- b) i) Describe phases of menstrual cycle  
ii) Discuss the hormonal control of menstrual cycle

**6. Short Answer Questions (Solve any 3 Out of 4) :- [3 × 5 = 15]**

- a) Describe the functions of the hypothalamus



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**EEB0000300017551202****First Semester B.Sc. Nursing (2022) Examination,  
Winter - 2024 Phase - III****APPLIED ANATOMY & APPLIED PHYSIOLOGY**

Total Duration : Section A+B+C = 3 Hours

Section B &amp; C Marks : 62

**SECTION - B**

- Instructions :**
- 1) Use black ball point pen only.
  - 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) All questions are compulsory.
  - 4) The number to the right indicates full marks.
  - 5) Draw diagrams wherever necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover the entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answer book for section B & C.

**SECTION - B**

- 2) Long Answer Questions (Solve any 1 out of 2) : [1 × 10 = 10]
- a) Explain kidney under following headings
    - i) Gross and microscopic structure of kidney
    - ii) Blood supply
    - iii) Renal colic
  - b) Describe Lungs under the following headings.
    - i) Gross structure
    - ii) Blood supply and lymphatic drainage
    - iii) Occupational hazards affecting the lungs
- 3) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]
- a) Draw the structure of the Skin and explain the Dermis layer.
  - b) Composition and function of Salivary Glands.
  - c) Draw a labeled diagram of the pelvic girdle and describe it.
  - d) Explain the structure of the Neuron.

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- 4) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- a) Enumerate the parts of the small intestine.
- b) List the intrinsic muscles of the eyeball.
- c) Enumerate the types of Neuroglia.
- d) Classify the fontanelles of the skull.

**SECTION - C**

- 5) Long Answer Questions (Solve any 1 out of 2) : [1 × 10 = 10]

- a) Define immunity and classify it. Explain factors affecting Immunity.
- b) Define the Cardiac cycle and describe the various events of the cardiac cycle. Enlist the factors affecting the cardiac cycle.

- 6) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

- a) Explain the Blood Pressure regulation by the kidney with a flow chart.

- b) Explain the blood clotting mechanism.

- c) Describe the composition of Lymph.

Enumerate the types of Blood groups

b.

Define Anaemia.

c.

Functions of CSF

d.

Write about Cardiac output.

### Section C

Que5.Long Answer Questions (Solve any 1 out of 2)

(1x10)

a.

Draw a well-labelled diagram of the cardiac cycle and explain it.

b.

Describe the structure, synthesis, and breakdown of Hemoglobin.

Que6.Short Answer Questions (Solve any 3 Out of 4) :-

a.

Explain about Lung volume and Lung capacity.

b.

Classify synovial joints with examples.

c.

Explain the mechanism of muscle contraction.

d.

Composition and functions of gastric juice.

Que7.Short Answer Questions(Solve any 3 Out of 4) :-

a.

Anatomy of the Tongue.

b.

Relations of Thyroid gland.

c.

Relations and blood supply of stomach.

d.

Relations of Urinary bladder in Males.

# Applied anatomy...



- b) Describe Lungs under the following headings.
- Gross structure
  - Blood supply and lymphatic drainage
  - Occupational hazards affecting the lungs

3) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

- Draw the structure of the Skin and explain the Dermis layer.
- Composition and function of Salivary Glands.
- Draw a labeled diagram of the pelvic girdle and describe it.
- Explain the structure of the Neuron.

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4) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- Enumerate the parts of the small intestine.
- List the intrinsic muscles of the eyeball.
- Enumerate the types of Neuroglia.
- Classify the fontanelles of the skull.

### SECTION - C

5) Long Answer Questions (Solve any 1 out of 2) : [1 × 10 = 10]

- Define immunity and classify it. Explain factors affecting Immunity.
- Define the Cardiac cycle and describe the various events of the cardiac cycle. Enlist the factors affecting the cardiac cycle.

6) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

- Explain the Blood Pressure regulation by the kidney with a flow chart.
- Explain the blood clotting mechanism.
- Describe the composition of Lymph.
- Illustrate the factors affecting Heart rate.

7) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- Define total lung capacity.
- List any four functions of Cerebrospinal fluid.
- Enumerate any four functions of Liver.
- List the important sources of Carbohydrates.



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4) Short Answer Questions(Solve any 3 out of 4) [3 × 2 = 6]

- a) Enlist the factors causing a right shift of the Oxygen dissociation curve.
- b) Classify the receptors based on location
- c) List the lobes of Cerebrum
- d) Enumerate the functions of blood.

## SECTION - C (Applied Physiology)

5) Long Answer Questions (Solve any 1 out of 2) [1 × 10 = 10]

- a) Explain the physiology of Pulmonary Ventilation and relate compliance and airway resistance to it.
- b) Define digestion and explain the phases of digestion. Distinguish between chemical and mechanical digestion processes.

6) Short Answer Questions (Solve any 3 out of 4) [3 × 5 = 15]

- a) Define and classify anemia
- b) Define Glomerular Filtration Rate (GFR) and explain the factors affecting GFR
- c) Explain Thermoregulation in humans.
- d) Explain the Formation and circulation of cerebrospinal fluid

7) Short Answer Questions(Solve any 3 out of 4) [3 × 2 = 6]

- a) The Medial Meniscus is often injured. Give reason.
- b) Label the planes in the given figure
- c) Describe the cell membrane in brief
- d) Classify the types of simple Epithelium



**SECTION - B**

2) Long Answer Questions (Solve any 1 out of 2) : [1 × 10 = 10]

- a) Explain kidney under following headings
  - i) Gross and microscopic structure of kidney
  - ii) Blood supply
  - iii) Renal colic
- b) Describe Lungs under the following headings.
  - i) Gross structure
  - ii) Blood supply and lymphatic drainage
  - iii) Occupational hazards affecting the lungs

3) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

- a) Draw the structure of the Skin and explain the Dermis layer.
- b) Composition and function of Salivary Glands.
- c) Draw a labeled diagram of the pelvic girdle and describe it.
- d) Explain the structure of the Neuron.

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4) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- a) Enumerate the parts of the small intestine.
- b) List the intrinsic muscles of the eyeball.
- c) Enumerate the types of Neuroglia.
- d) Classify the fontanelles of the skull.

**SECTION - C**

5) Long Answer Questions (Solve any 1 out of 2) : [1 × 10 = 10]

- a) Define immunity and classify it. Explain factors affecting Immunity.
- b) Define the Cardiac cycle and describe the various events of the cardiac cycle. Enlist the factors affecting the cardiac cycle.

6) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

- a) Explain the Blood Pressure regulation by the kidney with a flow chart.
- b) Explain the blood clotting mechanism.
- c) Describe the composition of Lymph.
- d) Illustrate the factors affecting Heart rate.

7) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- a) Define total lung capacity.
- b) List any four functions of Cerebrospinal fluid.
- c) Enumerate any four functions of Liver.
- d) List the important sources of Carbohydrates.

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First semester B.Sc. Nursing Examination, Summer

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Phase - II

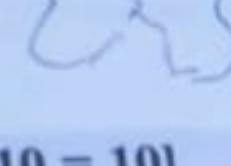
**APPLIED ANATOMY & APPLIED PHYSIOLOGY**

Total Duration : Section A+B+C = 3 Hours

Section B&amp;C Marks : 62

**SECTION - B & SECTION - C**

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- 1) Use black ball point pen only.
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  - 7) Use a common answer book for section B & C.

**SECTION - B (Applied Anatomy)****2) Long Answer Questions (any one out of two) [1 × 10 = 10]**

- a) Describe the Brachial plexus under the following headings
- i) Formation
  - ii) Branches
  - iii) Applied anatomy

**b) Describe the Hip joint under the following headings**

- i) Articular surfaces
- ii) Ligaments
- iii) Muscles involved in movement

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Lateral & media  
circum**3) Short Answer Questions (any three out of four) [3 × 5 = 15]**

- a) Name the chambers of the heart and elaborate the openings in the right atrium.
- b) Define mediastinum and describe the contents of mediastinum
- c) Explain the supports of Uterus
- d) Describe Bronchopulmonary segments

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**4) Short Answer Questions (Solve any 3 out of 4) [3 × 2 = 6]**

- a) Enlist the factors causing a right shift of the Oxygen dissociation curve.

- b) Classify the receptors based on location

the lobes of Cerebrum



Enumerate the functions of blood.



Applied Anatomy & Applied Physiology  
Time : 3 Hrs  
Max. Marks : 62.00  
Version :  
Question Booklet St. No. :

Section B

(1x10=10.00)

Que2.Long Answer Questions (Solve any 1 out of 2)

a.

Explain the kidney under the following headings:-

External features, Structure, Relations, Blood supply, venous drainage, and nerve supply.

b.

Enumerate the parts of the Digestive system. Explain in detail about the Liver.

(3x5=15.00)

Que3.Short Answer Questions (Solve any 3 out of 4)

a.

Location of the Diaphragm

b.

Parts of the femur,bone

c.

Anatomical structure of the nose.

d.

supports of uterus

Que4.Short Answer Questions(Solve any 3 Out of 4) :-

(3x2=6.00)

a.

Enumerate the types of Blood groups

b.

Define Anaemia.

c.

Functions of CSF

d.

Write about Cardiac output.

Section C

Que5.Long Answer Questions (Solve any 1 out of 2)

(1x10=10.00)

a.

Draw a well-labelled diagram of the cardiac cycle and explain it.

b.

Describe the structure, synthesis, and breakdown of Hemoglobin.

Que6.Short Answer Questions (Solve any 3 Out of 4) :-

a.

Explain about Lung volume and Lung capacity.

b.

Classify synovial joints with examples.

c.

Explain the mechanism of muscle contraction.

← Applied anatomy...



First Semester

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g (2022) Examination

First Semester B.Sc. Nursing (2022) Examination,  
Winter - 2024 Phase - III  
**APPLIED ANATOMY & APPLIED PHYSIOLOGY**

Section A+B+C = 3 Hours

SEC

*All point pen only*

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  - 7) ***Use a common answer book for section B & C.***

following headin

- i) Gross and microscopic structure of kidney  
ii) Blood supply  
iii) Renal colic

b) Describe Lungs under the following headings.

  - Gross structure
  - Blood supply and lymphatic drainage
  - Occupational hazards affecting the lungs

3) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

  - Draw the structure of the Skin and explain the Dermis layer.
  - Composition and function of Salivary Glands.
  - Draw a labeled diagram of the pelvic girdle and describe it.
  - Explain the structure of the Neuron.

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estine.

- b) List the intrinsic muscles of the eyeball.
  - c) Enumerate the types of Neuroglia.
  - d) Classify the fontanelles of the skull.

(Solve any 1 out)

- a) Define immunity and classify it. Explain factors affecting immunity.

b) Define the Cardiac cycle and describe the various events of the cardiac cycle. Enlist the factors affecting the cardiac cycle.

6) Short Answer Questions (Solve any 3 out of 4) : [3 × 5 = 15]

a) Explain the Blood Pressure regulation by the kidney with a flow chart.

b) Explain the blood clotting mechanism.

c) Describe the process of Gluconeogenesis.

← Applied anatomy...



First Semester

EEB0000300017331202  
g (2022) Examination

First Semester B.Sc. Nursing (2022) Examination,  
Winter - 2024 Phase - III  
**APPLIED ANATOMY & APPLIED PHYSIOLOGY**

Section A+B+C = 3 Hours

SEC

*All point pen only*

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11

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c) Describe the process of Gluconeogenesis.