

First Basic B.Sc. Nursing Examination, Summer (Phase - II) 2019  
ANATOMY AND PHYSIOLOGY

Total Duration : 3 Hours

Total Marks : 75

- Instructions :**
- 1) Use **blue/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 answer book for all sections.

**SECTION - A (42 Marks)**

(ANATOMY)

1. Short answer questions (**any six** out of seven) : [6 × 5 = 30]
- a) Boundaries and contents of femoral triangle.
  - b) Deltoid muscle.
  - c) Endoplasmic reticulum.
  - d) Relations and blood supply of Right kidney.
  - e) Name the extraocular muscles and mention their nerve supply.
  - f) Bronchopulmonary segments.
  - g) Classify synovial joints with examples.
2. Long answer questions (**any one** out of two):
- a) Describe the urinary bladder under the following headings
    - i) Location and shape. [2]
    - ii) Capacity. [1]
    - iii) Relations in male and female. [3]
    - iv) Ligaments. [2]
    - v) Interior of bladder. [2]
    - vi) Applied anatomy. [2]



- b) Describe the thyroid gland under the following headings
- i) Shape, size and situation. [2]
  - ii) Capsule of thyroid gland. [2]
  - iii) Relations. [3]
  - iv) Blood supply. [3]
  - v) Applied anatomy. [2]

**SECTION - B (33 Marks)**

(PHYSIOLOGY)

3. Short answer questions (**any four** out of five): [4 × 5 = 20]
- a) Give the composition and functions of saliva.
  - b) Write a note on functions of WBC.
  - c) Functions of stomach.
  - d) Give the composition and functions of cerebrospinal fluid (CSF)
  - e) Give a flow chart of the conducting system of the heart.

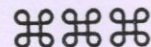
4. Long answer questions :

- a) Enumerate the hormones secreted by anterior pituitary gland. Discuss the actions of thyroid hormones on various metabolisms. [6]
- b) Add a note on Hyperthyroidism. [7]

OR

Long answer questions :

- c) Describe ABO & Rh blood group systems. [6]
- d) Add a note on erythroblastosis fetalis. [7]





**First Basic B.Sc. Nursing Examination, Summer 2018**  
**ANATOMY AND PHYSIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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  - 7) **Use** a common answerbook for **all** sections.

SECTION – A (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : (6×5=30)
  - a) Lymphatic drainage of mammary gland.
  - b) Bronchopulmonary segments.
  - c) Boundaries and contents of femoral triangle.
  - d) Constituents of the spermatic cord.
  - e) Relations of urinary bladder in male.
  - f) Sternocleidomastoid muscle.
  - g) Sulci and gyri on superolateral surface of cerebrum.
  
2. Long answer question (**any one** out of two) : (1×12=12)
  - a) Describe synovial joint under following heads :
 

i) Definition	2
ii) Characteristics	2
iii) Classification with example	6
iv) Applied anatomy	2

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- b) Describe the stomach under following heads :
- i) External features and relations 3
  - ii) Blood supply 3
  - iii) Lymphatic Drainage 3
  - iv) Applied Anatomy 3

SECTION – B (33 Marks)

(Physiology)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Enumerate the properties of Skeletal muscle and describe any one in detail.
  - b) Compare and contrast between cortical and juxtaglomerular nephron.
  - c) Classify nerve fibers on the basis of conduction velocity and add a note on saltatory conduction.
  - d) Draw a well labelled diagram of ECG in lead II and give the normal values of all the intervals.
  - e) Describe the functions of hypothalamus.
4. Long answer question : (1×13=13)
- a) Define synapse, classify it and enumerate its properties. 6
  - b) Describe the mechanism of synaptic transmission. 7
- OR
- Long answer question : (1×13=13)
- c) What is the physiological basis of Blood group ? Name the various Blood groups 6
  - d) What are the hazards of Blood transfusion ? 7





**First Basic B.Sc. Nursing Examination, Summer 2017**  
**ANATOMY AND PHYSIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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  - 3) **All** questions are **compulsory.**
  - 4) The number to the **right** indicates **full** marks.
  - 5) Draw diagrams **wherever** necessary.
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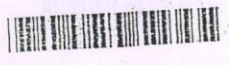
**SECTION – A**

**(Anatomy)**

**(42 Marks)**

1. Short answer question (any six out of seven) : (6×5=30)
  - a) Boundaries and contents of axilla.
  - b) Interior of the right atrium. — Repeat winter 2015
  - c) Sartorius muscle.
  - d) Primary supports of uterus. — Repeat May/June 2011
  - e) Differences between the small intestine and large intestine. Rep Summer 2012 / May/June 2008
  - f) Nerve supply of tongue. — Re. Summer 2-15
  - g) Morphological and functional divisions of cerebellum.
  
2. Long answer question (any one out of two) : (1×12=12)
  - a) Describe rectus sheath under following heads :
    - i) Definition and Features 3
    - ii) Formation 3
    - iii) Contents 3
    - iv) Function and Applied anatomy. 3





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- b) Describe left kidney under following heads : 3
- i) Anterior relations 3
- ii) Posterior relations 2
- iii) Arterial supply 2
- iv) Venous drainage 2
- v) Applied anatomy.

SECTION - B  
(Physiology)

(33 Marks)  
(4x5=20)

3. Short answer question (any four out of five) :

- a) Rh incompatibility. — *Repeat Summs 2013*
- b) Puberty.
- c) Composition and Functions of Cerebrospinal Fluid (CSF). *May/June 2010*
- d) Actions of Thyroid hormone. Add a note on Hyperthyroidism.
- e) Explain the mechanism of muscle contraction.

(1x13=13)

4. Long answer question :

- a) Describe the structure, synthesis and functions of Haemoglobin. Add a note on Anaemia. 6
- b) Define Cardiac Output. Explain the factors regulating Cardiac Output. *Repeat winter 2015* 7

OR

Long answer question :

- c) Describe the Composition and Functions of Pancreatic juice. *May/June 2011* 6
- d) Describe transport of Oxygen from lungs to the tissues. Draw a neat labelled diagram of Oxygen-Haemoglobin dissociation curve. 7

(1x13=13)





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**First Basic B.Sc. Nursing Examination, Summer 2016**  
**ANATOMY AND PHYSIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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  - 4) The number to the **right** indicates **full** marks.
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  - 7) **Use** a common answerbook for **all** sections.

**SECTION – A**  
**(Anatomy)**

**(42 Marks)**

1. Short answer question (**any six** out of seven) : **(6×5=30)**
  - a) Classification of bones according to shape and write it's functions
  - b) Blood supply of heart
  - c) Relations and ligaments of spleen
  - d) Nerve supply of tongue
  - e) Enumerate formation and branches of brachial plexus
  - f) Structures under cover of gluteus maximus muscle
  - g) Functional areas on superolateral surface of brain.
  
2. Long answer question (**any one** out of two) : **(1×12=12)**
  - a) Describe the uterus under the following heads :
    - i) size, shape, normal position and angulation
    - ii) parts of uterus
    - iii) supports of uterus
    - iv) Applied anatomy.





- b) Describe the left lung under the following heads :
- i) features
  - ii) root
  - iii) mediastinal surface
  - iv) Applied anatomy.

**SECTION – B**  
**(Physiology)**

**(33 Marks)**

3. Short answer question (**any four** out of five) :

**(4×5=20)**

- a) Write a note on sarcomere
- b) Composition and functions of saliva
- c) Conducting system of heart
- d) Mechanisms for body temperature regulation
- e) Write a note on diabetes mellitus.

4. Long answer question :

**(1×13=13)**

- a) Define and classify Anaemia. 6
- b) Describe process of urine formation. 7

OR

Long answer question :

**(1×13=13)**

- c) Enumerate functions of lungs. Add a note on Oxygen-Haemoglobin dissociation curve. 6
- d) Define Menstrual cycle. Write briefly about phases of menstrual cycle. 7



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**First Basic B.Sc. Nursing Examination, Summer 2015  
ANATOMY AND PHYSIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

**SECTION – A & SECTION – B**

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  - 7) **Use** a common answer book for **all** Sections.

**SECTION – A (42 Marks)**

**Anatomy**

1. Short answer question (**any six** out of seven) :

**(6×5=30)**

- a) Mitochondria.
- b) Deltoid muscle.
- c) Femoral Triangle.
- d) Define Mediastinum. Mention its division and enumerate the contents of middle mediastinum.
- e) Draw neat labelled diagram showing anterior relations of left kidney.
- f) Describe nerve supply of tongue.
- g) Describe blood supply of thyroid gland.

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2. Long answer question (**any one** out of two) : (1×12=12)

- a) Describe stomach under the following heads :
  - a) Gross structure and relations (3)
  - b) Blood supply (3)
  - c) Lymphatic drainage (3)
  - d) Applied Anatomy (3)
- b) Describe synovial joint under following heads :
  - a) Structure (3)
  - b) Classification (3)
  - c) Mechanism of lubrication (3)
  - d) Applied Anatomy (3)

SECTION – B (33 Marks)

**Physiology**

3. Short answer questions (**any four** out of five) : (4×5=20)

- ✓ a) Functions of Testosterone.
- ✓ b) Enumerate the different blood group system. Importance of determination of blood groups.
- c) Different mechanism for regulating body temperature.
- ✓ d) Functions of thyroid hormones. Add a note on hypothyroidism.
- ✓ e) Cerebrospinal fluid.

4. Long answer question : (1×13=13)

- a) Define and describe the process of blood coagulation. 6
- b) Composition and functions of gastric juice. Write briefly about phases of gastric secretion. 7

OR

Long answer question : (1×13=13)

- c) Describe the process of Oxygen transport from lungs to tissues. 6
- d) Define and draw a diagram of cardiac cycle. Describe the ventricular events in cardiac cycle. 7





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**First Basic B.Sc. Nursing Examination, Summer 2014  
ANATOMY AND PHYSIOLOGY**

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

Section B & C Marks : 60

**SECTION – B & SECTION – C**

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  - 3) **All questions are compulsory.**
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  - 7) **Use a common answer book for all Sections.**

**SECTION – B**

**(30 Marks)**

**Anatomy**

2. Answer the following (any three out of four) : **(3x5=15)**
  - a) Classification of bones
  - b) Deltoid muscle
  - c) Blood supply of stomach
  - d) Name the chambers of heart and openings in the right atrium
3. Describe the mammary gland under the following headings : **(1x7=7)**
  - a) Morphology **3**
  - b) Lymphatic drainage **2**
  - c) Applied anatomy **2**

P.T.O.



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4. Describe the hip joint under the following headings : (1x8=8)
- a) Type. 1
  - b) Articular surfaces. 2
  - c) Ligaments. 2
  - d) Movements & muscles producing them. 3

SECTION – C

(30 Marks)

Physiology

5. Answer the following (**any three** out of four) : (3x5=15)
- a) Functions of white blood cells.
  - b) Write a note on vital capacity.
  - c) Functions of placenta.
  - d) Role of skin in temperature regulation.
6. Describe different phases of cardiac cycle with a well labelled diagram. (1x7=7)
7. Describe the composition and functions of gastric juice. (1x8=8)
-