

BACHELOR OF SCIENCE (NURSING) (2019 COURSE)

F. Y. B. Sc. (Nursing) : : SUMMER - 2022

SUBJECT : ANATOMY & PHYSIOLOGY

Day : Tuesday
Date : 31-05-2022

S-22421-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** Write short answers on **ANY FIVE** of the following: [10]
- a) Types of Tissues.
 - b) Location of Pancreas.
 - c) Structure of skin.
 - d) Enumerate parts of male reproductive system.
 - e) Structure of kidney.
 - f) Coverings of Brain.
 - g) Femoral artery.
- Q.2** Write short answers on **ANY FOUR** of the following: [16]
- a) Left lung
 - b) Muscles of mastication
 - c) Spinal cord
 - d) Thymus gland
 - e) Structure of Breast
 - f) Explain Popliteal fossa
- Q.3** Write the long answer on **ANY ONE** of the following: [12]
- a) Describe hip joint in detail about classification, ligaments, muscles and movements.
 - b) Enumerate the parts of female reproductive system, describe in detail about uterus and ovary.

SECTION – II

- Q.4** Write short answers on **ANY FIVE** of the following: [10]
- a) Types of neurons.
 - b) Name the parts of Gastrointestinal tract.
 - c) Enumerate Errors of Refraction.
 - d) Functions of RBC.
 - e) Functions of spleen.
 - f) Name the hormones secreted by Pituitary gland.
 - g) Functions of saliva.
- Q.5** Write short answers on **ANY FOUR** of the following: [16]
- a) Physiology of Muscle contraction.
 - b) Explain CSF Circulation.
 - c) Types of immune response.
 - d) Mitosis.
 - e) Clinical conditions affecting Thyroid gland.
 - f) Menstrual cycle
- Q.6** Write short answer of the following: [05]
[06]
- a) Mechanism of respiration.
 - b) Physiology of respiration.

OR

- a) Composition of urine. [05]
- b) Mechanism of urine formation [06]

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Day : Wednesday

Time : 10:00 AM TO 1:00 P.M.

Date : 02-06-2021 S. 2021-22421

Max Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both sections should be written in **SEPARATE** answer books.

SECTION-I

Q.1 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Muscles of mastication
- 2) Enumerate parts of digestive system
- 3) Blood supply of heart
- 4) Functions of nephrons
- 5) Types of tissues
- 6) Enumerate parts of female reproductive system
- 7) Draw neat labeled diagram of eye

Q.2 Write short answers on **ANY FOUR** of the following: **(4x4=16)**

- 1) Describe stomach in detail
- 2) Midbrain
- 3) Muscles of Respiration
- 4) Thymus gland
- 5) Boundaries and contents of femoral triangle.
- 6) Explain structure of Breast

Q.3 Write short answers on **ANY ONE** of the following:

- 1) Describe shoulder joint in detail about classification, ligaments, muscles and movements. **(12)**

OR

Describe thyroid gland under following headings

- a) Location **(02)**
- b) Structure **(03)**
- c) Relations **(03)**
- d) Blood supply **(02)**
- e) Applied anatomy **(02)**

SECTION-II

Q.4 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Functions of skin
- 2) Functions of RBC
- 3) Mitochondria
- 4) Classification of blood groups
- 5) Spermatogenesis
- 6) Composition of urine
- 7) Types of muscles

Q.5 Write short answers on **ANY FOUR** of the following: **(4x4=16)**

- 1) Physiology of hearing
- 2) Functions of neurons
- 3) Mechanism of respiration
- 4) Explain menstrual cycle in detail
- 5) Types of Immunity
- 6) Errors of refraction

Q.6 Write short answers on **ANY ONE** of the following:

- 1) Explain cardiac cycle in detail. **(05)**
- 2) Explain factors influencing blood pressure. **(06)**

OR

- 1) Define Glomerular filtration rate. Write factors affecting GFR. **(05)**
- 2) Describe process of urine formation **(06)**

Day : Tuesday

Time : 9:00 AM TO 12:00 NOON

Date : 01-12-2020 S-2020-2242 Max Marks : 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both sections should be written in **SEPARATE** answer books.

SECTION-I

Q.1 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) External Ear.
- 2) Coverings of Brain.
- 3) Location of Pancreas.
- 4) Types of tissues.
- 5) Pituitary Gland.
- 6) Femoral artery.
- 7) Structural difference between striated and non- striated muscles.

Q.2 Write short answers on **ANY FOUR** of the following: **(4x4=16)**

- 1) Right lung
- 2) Boundaries and contents of femoral triangle.
- 3) Muscles of Respiration.
- 4) Right atrium.
- 5) Tongue.
- 6) Structure and functions of skin.

Q.3 Write short answers on **ANY ONE** of the following:

- 1) Describe hip joint in detail about classification, ligaments, muscles and movements. **(12)**

OR

- 1) Enumerate the parts of female reproductive system. Explain functions of fallopian tube. Describe in detail about uterus. **(12)**

SECTION-II

Q.4 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Properties of cardiac muscle.
- 2) Vital capacity.
- 3) Functions of CSF.
- 4) Innate Immunity.
- 5) Physiology of hearing.
- 6) Composition of saliva.
- 7) Types of muscles.

Q.5 Write short answers on **ANY FOUR** of the following: **(4x4=16)**

- 1) Physiology of muscle contraction.
- 2) Spermatogenesis.
- 3) Blood brain barrier.
- 4) Mechanism of Blood coagulation.
- 5) Factors affecting respiration.
- 6) Cardiac cycle.

Q.6 Write short answers on **ANY ONE** of the following:

- 1) Define Glomerular filtration rate. Write factors affecting GFR. **(05)**
- 2) Describe process of urine formation. **(06)**

OR

- 1) Define blood pressure, state the normal values and describe the regulations of Blood pressure. **(11)**

F.Y. B.SC. (NURSING) (2007 COURSE) : SUMMER - 2019

SUBJECT : ANATOMY AND PHYSIOLOGY

Day : Wednesday

Date : 17/04/2019

S-2019-4323

Time : 10.00 A.M. TO 01.00 P.M.

Max. Marks : 75

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both the sections should be written in **SEPARATE** answer books.

SECTION - I

Q.1 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Functions of Skin.
- 2) Give names and locations of five arteries where pulses can be palpated.
- 3) Parts of Nephron.
- 4) Draw neat diagram of female reproductive system.
- 5) Thymus gland.
- 6) Types of tissues.
- 7) Pituitary gland.

Q.2 Write short notes on **ANY FOUR** of the following: **(4x4=16)**

- 1) Explain popliteal fossa.
- 2) Structure of ear.
- 3) Left lung.
- 4) Midbrain.
- 5) Muscles of mastication.
- 6) Urinary bladder.

Q.3 Write the long answer on **ANY ONE** of the following:

Describe heart under following headings

- 1) Structure of heart **(04)**
- 2) Conduction system of heart **(03)**
- 3) Blood supply of heart **(03)**
- 4) Applied anatomy **(02)**

OR

Describe shoulder joint under following headings

- 1) Type and articular surfaces **(03)**
- 2) Ligaments **(03)**
- 3) Movements and muscles producing movements **(03)**
- 4) Applied anatomy **(03)**

SECTION - II

Q.4 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Types of immune response
- 2) Composition of CSF
- 3) Phases of cardiac cycle
- 4) Functions of bile
- 5) Types of reflexes
- 6) Mitochondria
- 7) Types of tissues

P.T.O.

Q.5 Write short notes on **ANY FOUR** of the following: **(4x4=16)**

- 1) Regulation of blood pressure
- 2) Spermatogenesis
- 3) Composition and functions of saliva
- 4) Physiology of hearing
- 5) ABO blood group system
- 6) Electrocardiogram

Q.6 Write the long answer on **ANY ONE** of the following:

- 1) Describe functions of Kidney **(05)**
- 2) Explain mechanism of urine formation **(06)**

OR

- 1) Describe menstrual cycle with the help of labelled diagram. Explain different phases of menstrual cycle in detail. **(11)**

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170419-m-nursing-pune

F.Y. B.SC. (NURSING) (2007 COURSE) : SUMMER - 2019

SUBJECT : ANATOMY AND PHYSIOLOGY

Day : Wednesday

Date : 17/04/2019

S-2019-4323

Time : 10.00 A.M. TO 01.00 P.M.

Max. Marks : 75

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both the sections should be written in **SEPARATE** answer books.

SECTION - I

Q.1 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Functions of Skin.
- 2) Give names and locations of five arteries where pulses can be palpated.
- 3) Parts of Nephron.
- 4) Draw neat diagram of female reproductive system.
- 5) Thymus gland.
- 6) Types of tissues.
- 7) Pituitary gland.

Q.2 Write short notes on **ANY FOUR** of the following: **(4x4=16)**

- 1) Explain popliteal fossa.
- 2) Structure of ear.
- 3) Left lung.
- 4) Midbrain.
- 5) Muscles of mastication.
- 6) Urinary bladder.

Q.3 Write the long answer on **ANY ONE** of the following:

Describe heart under following headings

- 1) Structure of heart **(04)**
- 2) Conduction system of heart **(03)**
- 3) Blood supply of heart **(03)**
- 4) Applied anatomy **(02)**

OR

Describe shoulder joint under following headings

- 1) Type and articular surfaces **(03)**
- 2) Ligaments **(03)**
- 3) Movements and muscles producing movements **(03)**
- 4) Applied anatomy **(03)**

SECTION - II

Q.4 Write short answers on **ANY FIVE** of the following: **(5x2=10)**

- 1) Types of immune response
- 2) Composition of CSF
- 3) Phases of cardiac cycle
- 4) Functions of bile
- 5) Types of reflexes
- 6) Mitochondria
- 7) Types of tissues

P.T.O.

Q.5 Write short notes on **ANY FOUR** of the following: **(4x4=16)**

- 1) Regulation of blood pressure
- 2) Spermatogenesis
- 3) Composition and functions of saliva
- 4) Physiology of hearing
- 5) ABO blood group system
- 6) Electrocardiogram

Q.6 Write the long answer on **ANY ONE** of the following:

- 1) Describe functions of Kidney **(05)**
- 2) Explain mechanism of urine formation **(06)**

OR

- 1) Describe menstrual cycle with the help of labelled diagram. Explain different phases of menstrual cycle in detail. **(11)**

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170419-m-nursing-pune

F.Y. B.SC. (NURSING) (2007 COURSE) : SUMMER - 2018
SUBJECT: ANATOMY AND PHYSIOLOGY

Day: **Monday**
Date: **16/04/2018**

Time: **10.00 AM TO 01.00 PM**
Max. Marks: 15

S-2018-3857

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Put a tick mark in the appropriate box.
- 3) Use blue/ black ball point pen only.
- 4) Section-I should be completed in **15** minutes.
- 5) Each question carries **ONE** mark.
- 6) Student will not be allotted any marks if he/she overwrites strikes or puts ink on the box once marked.

Seat No.: _____
Marks Obtained: _____

Signature of Supervisor: _____

SECTION-A

- Q.1** Spinal cord in adult ends at the level of _____.
- a) Lower Border of T₁₂ vertebra
 - b) Lower Border of L₁ vertebra
 - c) Lower Border of L₂ vertebra
 - d) Lower Border of L₃ vertebra
- Q.2** Hemophilia is due to deficiency of clotting factor.
- a) VIII
 - b) IX
 - c) X
 - d) V
- Q.3** Which of the following is completely reabsorbed in the proximal convoluted tubule?
- a) Sodium
 - b) Urea
 - c) Glucose
 - d) Water
- Q.4** Following are content of cubital fossa **Except** _____.
- a) Median Nerve
 - b) Brachial Nerve
 - c) Tendon of Biceps
 - d) Ulnar Nerve

P.T.O.

- Q.5** One purpose of lymph nodes is to _____.
- a) Trap microphages
 - b) Trap antigens
 - c) Trap antibodies
 - d) Trap Hormones
- Q.6** Total no. of bones in human body are _____.
- a) 200
 - b) 208
 - c) 198
 - d) 201
- Q.7** Pressure in vena cava and right atrium is called _____.
- a) Peripheral venous pressure
 - b) Systolic pressure
 - c) Central venous pressure
 - d) Diastolic pressure
- Q.8** Gluteus maximus is supplied by _____.
- a) Superior gluteal nerve
 - b) Inferior gluteal nerve
 - c) Obturator nerve
 - d) Femoral nerve
- Q.9** Somato sensory cortex exhibits highest degree representation for _____.
- a) Lips
 - b) Thumb
 - c) Head
 - d) Trunk
- Q.10** QRS complex in ECG is recorded due to _____.
- a) Atrial repolarization
 - b) Atrial depolarization
 - c) Ventricular depolarization
 - d) Ventricular repolarization

Q.11 Following are branches of external carotid artery **Except** _____.

- a) Facial Artery
- b) Superior Thyroid Artery
- c) Lingual Artery
- d) Inferior Thyroid Artery

Q.12 Chief inspiratory muscle is _____.

- a) Anterior serratus
- b) Diaphragm
- c) Sternocleidomastoid
- d) External oblique

Q.13 Normal RBC count in adult male is _____.

- a) 2 to 2.5 millions/ cmm of blood
- b) 2.5 to 3.5 millions/ cmm of blood
- c) 4.1 to 6.1 millions/ cmm of blood
- d) None of the above

Q.14 Urinary bladder is lined by _____.

- a) Squamous epithelium
- b) Transitional epithelium
- c) Columnar epithelium
- d) Cuboidal epithelium

Q.15 Shoulder joint is classified as _____.

- a) Pivot
- b) Ball and socket