

**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.<https://www.freshersnow.com/previous-year-question-papers/>

**Seat No.:** \_\_\_\_\_

**Signature of Supervisor:** \_\_\_\_\_

**Marks Obtained:** \_\_\_\_\_

**SECTION-A**

**Q.1** Spinal cord in adult ends at the level of \_\_\_\_\_.

- a) Lower Border of T<sub>12</sub> vertebra
- b) Lower Border of L<sub>1</sub> vertebra
- c) Lower Border of L<sub>2</sub> vertebra
- d) Lower Border of L<sub>3</sub> 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

c) Condylar

d) Secondary cartilaginous

\* \* \* \* \*

**F.Y. B.Sc. (Nursing) (2007 Course): SUMMER- 2018**

**SUBJECT: ANATOMY AND PHYSIOLOGY**

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

**S-2018-3857**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 60

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**N.B:**

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

**Q.1** Describe Hip joint under the following: **(15)**

- a) Classification
- b) Bones taking part
- c) Movements and muscles causing them.

**OR**

Enumerate the parts of Female Reproduction system, Explain functions of fallopian tube. Describe in detail about uterus.

**Q.2** Write short notes on **ANY FIVE** of the following: **(15)**

- a) Explain right atrium in detail
- b) Enumerate five arteries where pulse can be taken and describe their locations
- c) Parotid gland
- d) Stomach
- e) Midbrain
- f) Cell mediated immunity
- g) Muscles of Respiration

**SECTION-C**

**Q.3** Classify Blood groups. Describe the ABO blood group system. Add a note on mismatched blood Transfusion. **(15)**

**OR**

Define Glomerulo Filtration Rate. Write in detail the mechanism of urine formation.

**Q.4** Write short notes on **ANY FIVE** of the following: **(15)**

- a) Functions of liver
- b) Factors affecting blood pressure
- c) Functions of CSF
- d) Reflex arch
- e) Blood supply of Tongue
- f) Spermatogenesis
- g) Physiology of hearing

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**SHARAYU- I (2007 COURSE): APRIL / MAY - 2012**  
**SUBJECT: ANATOMY AND PHYSIOLOGY**

Day: Wednesday  
Date: 18-04-2012

Time: —  
Max. Marks: 15

**N.B.:**

- 1) Put a ✓ in the appropriate box below the questions number once only.
- 2) Use blue ball point pen only.
- 3) Each question carries one mark.
- 4) Students will not be allotted marks if he / she overwrites strikes or puts white ink on the cross once marked.

**SECTION-A**

**Q.1** Vertebral level of inferior venacava opening in the diaphragm is

- |                    |                          |
|--------------------|--------------------------|
| a) T <sub>6</sub>  | <input type="checkbox"/> |
| b) T <sub>8</sub>  | <input type="checkbox"/> |
| c) T <sub>10</sub> | <input type="checkbox"/> |
| d) T <sub>12</sub> | <input type="checkbox"/> |

**Q.2** Lumbar puncture in adult done at the intervertebral space of

- |                                     |                          |
|-------------------------------------|--------------------------|
| a) T <sub>12</sub> - L <sub>1</sub> | <input type="checkbox"/> |
| b) L <sub>1</sub> - L <sub>2</sub>  | <input type="checkbox"/> |
| c) L <sub>3</sub> - L <sub>4</sub>  | <input type="checkbox"/> |
| d) L <sub>5</sub> - S <sub>1</sub>  | <input type="checkbox"/> |

**Q.3** Nerve supply of biceps brachi muscle is

- |                           |                          |
|---------------------------|--------------------------|
| a) Radial nerve           | <input type="checkbox"/> |
| b) Ulnar nerve            | <input type="checkbox"/> |
| c) Musculocutaneous nerve | <input type="checkbox"/> |
| d) Axillary nerve         | <input type="checkbox"/> |

**Q.4** Hassal's corpuscles are present in

- |               |                          |
|---------------|--------------------------|
| a) Spleen     | <input type="checkbox"/> |
| b) Tonsil     | <input type="checkbox"/> |
| c) Thymus     | <input type="checkbox"/> |
| d) Lymph node | <input type="checkbox"/> |

**Q.5** Portal vein is situated in

- |                           |                          |
|---------------------------|--------------------------|
| a) Greater omentum        | <input type="checkbox"/> |
| b) Lesser omentum         | <input type="checkbox"/> |
| c) Gastrosplenic ligament | <input type="checkbox"/> |
| d) None of the above      | <input type="checkbox"/> |

**P. T. O.**

Q.6

Urinary bladder is lined by

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

Q.7

Facial artery is a branch of

- a) Common carotid artery
- b) External carotid artery
- c) Internal carotid artery
- d) Brachiocephalic trunk

Q.8

The sarcomere is area between two successive

- a) Z lines
- b) M lines
- c) H bands
- d) A bands

Q.9

Average duration of menstrual cycle is

- a) 45 days
- b) 35 days
- c) 14 days
- d) 28 days

Q.10

In ECG, QRS complex denotes-

- a) Atrial depolarization
- b) Ventricular depolarization
- c) Ventricular repolarization
- d) Nodal delay

Q.11

Energy producer unit of the cell is

- a) Mitochondria
- b) Ribosomes
- c) Nucleolus
- d) Golgi apparatus



**Q.12**

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) 3.5 to 4.5 millions / cmm of blood
- d) 5 to 6 millions / cmm of blood

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**Q.13**

Calcium metabolism is mainly dependant on

- a) Thyroxin
- b) Growth hormone
- c) Parathyroid hormone
- d) Calcitonin

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**Q.14**

Affected distant vision in young adults is called as

- a) Astigmatism
- b) Myopia
- c) Hypermetropia
- d) Anopia

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**Q.15**

Chief inspiratory muscle is

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

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SHARAYU-I (2007 COURSE): APRIL/MAY 2013  
SUBJECT: ANATOMY & PHYSIOLOGY

Day: Monday  
Date: 22-04-2013

Time: \_\_\_\_\_  
Max marks: 15

- N.B:** 1) Put a ☒ in the appropriate box below the question number once only  
2) Use blue ball point pen only  
3) Each question carries **ONE** mark  
4) Students will not be allotted marks if he/she overwrites strikes or puts white ink on the tick once marked.

**SECTION-A**  
**PART-I**

- Q.1** Tubal pregnancy is a form of  
a) Placenta previa ☐  
b) Ectopic pregnancy ☐  
c) Normal pregnancy ☐  
d) None of the above ☐
- Q.2** Commonest positions of Appendix is  
a) Retrocaecal ☐  
b) Pelvic ☐  
c) Subcaecal ☐  
d) Postileal ☐
- Q.3** Spinal cord in adult ends at the level of  
a) Lower border of T<sub>12</sub> vertebra ☐  
b) Lower border of L<sub>1</sub> vertebra ☐  
c) Lower border of L<sub>2</sub> vertebra ☐  
d) Lower border of L<sub>3</sub> vertebra ☐
- Q.4** Inversion and eversion movements of foot takes place at  
a) Ankle joint ☐  
b) Subtalar joint ☐  
c) Inferior tibio-fibular joint ☐  
d) First metatarso-phalangeal joint ☐
- Q.5** Pyelography is a radiological procedure to visualize  
a) Stomach ☐  
b) Large intestine ☐  
c) Kidneys ☐  
d) Uterus ☐

Q.6

- Coronary arteries are branches of
- a) Ascending aorta
  - b) Arch of aorta
  - c) Descending thoracic aorta
  - d) Pulmonary trunk

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Q.7

- Maxillary air sinus open into the lateral wall of nose at
- a) Superior meatus
  - b) Middle meatus
  - c) Inferior meatus
  - d) Sphenothmoidal recess

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PART-II

Q.8

Simple diffusion through lipid bilayer of cell membrane involves

- a) Amino acids
- b) Water soluble substances
- c) Glucose
- d) Lipid soluble substances

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Q.9

- ACTH level is highest during
- a) Early morning
  - b) Afternoon
  - c) Evening
  - d) Midnight

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Q.10

- Recharging of the nerve fiber occurs due to
- a) Closure of the sodium channels
  - b) Opening of the potassium channels
  - c)  $\text{Na}^+ - \text{K}^+$  pump activity
  - d) Closure of  $\text{Na}^+ - \text{K}^+$  channels

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Q.11

- First heart sound is due to
- a) Opening of atrio-ventricular valves
  - b) Closure of atrio-ventricular valves
  - c) Closure of semilunar valves
  - d) Last rapid filling

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**Q.12** Net filtration pressure causing filtration at glomeruli is

- a) 5 mm of Hg
- b) 10 mm of Hg
- c) 15 mm of Hg
- d) 20 mm of Hg


**Q.13** Bucket handle movement of the ribs increases

- a) Transverse diameter of the chest
- b) Vertical diameter of the chest
- c) Antero-posterior diameter of the chest
- d) All of the above


**Q.14** Leucocytosis is seen in all of the following EXCEPT

- a) Exposure to very low temperature
- b) New born babies up to one year
- c) Typhoid fever
- d) Parturition


**Q.15** Physiological blind spot is located at

- a) Fovea
- b) Optic disc
- c) Macula
- d) None of the above


**SHARAYU-I (2007 COURSE): APRIL/MAY 2013**  
**SUBJECT: ANATOMY & PHYSIOLOGY**

Day: Monday  
Date: 22-04-2013

Time: 9:00 A.M. To 12:00 Noon.  
Max marks: 60

**N.B:**

- 1) All questions are **COMPULSORY**
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Use **SEPARATE** answer sheet for each section.
- 4) Draw neat diagrams **WHEREVER** necessary

**SECTION-B**

**Q.1** Enumerate the parts of female reproductive system and describe uterus in detail (10)

**OR**

Enumerate the parts of digestive system and describe stomach in detail (10)

**Q.2** Write notes on **ANY FIVE** of the following: (20)

- a) Structure of kidney
- b) Classification of synovial joints
- c) Cerebellum
- d) Blood supply of heart
- e) Ear ossicles
- f) Intercostal space
- g) Pituitary gland

**SECTION-C**

**Q.3** Discuss cardiac cycle in detail (10)

**OR**

Describe regulation of respiration in detail (10)

**Q.4** Write notes on **ANY FIVE** of the following: (20)

- a) Saltatory conduction
- b) Neuromuscular junction
- c) Basal Metabolic Rate
- d) Reflex arc
- e) Juxtaglomerular apparatus
- f) Spermatogenesis
- g) Innate immunity



SHARAYU - I (2007 COURSE): WINTER - 2015  
SUBJECT : ANATOMY & PHYSIOLOGY

Day : Monday  
Date : 12.10.2015

Time : —  
Max. Marks : 15

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Put a tick mark  $\checkmark$  in the appropriate box.
- 3) Use a blue/black ball point pen only.
- 4) Section - A should be completed within **20** minutes.
- 5) Each question carries **ONE** mark.
- 6) Students will not be allotted marks if he or she overwrites strikes or puts ink on the cross marked.

Seat No. \_\_\_\_\_

Total Marks Obtained. \_\_\_\_\_

Jr. Supervisor Signature. \_\_\_\_\_

Examiner's Signature. \_\_\_\_\_

SECTION - A

Q.1 The pituitary gland is located in the body of \_\_\_\_\_.

- a) ☐ Sphenoid bone
- b) ☐ Ethmoid bone
- c) ☐ Temporal bone
- d) ☐ Parietal bone

Q.2 The circulatory route that runs from the digestive tract to the liver is called \_\_\_\_\_.

- a) ☐ Hepatic Portal circulation
- b) ☐ Systemic circulation
- c) ☐ Pulmonary circulation
- d) ☐ Coronary circulation

Q.3 Which of the organelle of cell is called the power house?

- a) ☐ Golgi Apparatus
- b) ☐ Ribosomes
- c) ☐ Lysosomes
- d) ☐ Mitochondria

Q.4 Following are the parts of nephron EXCEPT:

- a) ☐ Bowman's capsule
- b) ☐ Convoluted tubule
- c) ☐ Collecting duct
- d) ☐ Loop of Henle

**Q.5** How many thoracic vertebrae are there in human bodies?

- a) ☐ 6
- b) ☐ 8
- c) ☐ 16
- d) ☐ 12

**Q.6** What is joint?

- a) ☐ A Hinge
- b) ☐ The place where tendons are joined together
- c) ☐ The place where two bones are joined
- d) ☐ A ball and a socket

**Q.7** Which of these cranial nerve carry parasympathetic fibres to heart?

- a) ☐ Facial
- b) ☐ Glossopharyngeal
- c) ☐ Vagus
- d) ☐ Optic

**Q.8** Normal pacemaker of human heart is \_\_\_\_\_.

- a) ☐ S.A. node
- b) ☐ A.V. node
- c) ☐ Bundle of his
- d) ☐ Purkinje fibre

**Q.9** Parathyroid hormone has important role to maintain.

- a) ☐ Sodium and Phosphate level
- b) ☐ Calcium and Phosphate level
- c) ☐ Phosphate and Potassium level
- d) ☐ Calcium and Potassium level

**Q.10** Storage of bile occurs in \_\_\_\_\_.

- a) ☐ Liver
- b) ☐ Pancreas
- c) ☐ Gall bladder
- d) ☐ Urinary bladder



Q.11 Which part of the Neuron receives information?

- a) ☐ The node of Ranvier
- b) ☐ The myelin sheath
- c) ☐ The Axon
- d) ☐ The dendrite

Q.12 The target organ of Thyroid stimulating Hormone is \_\_\_\_\_.

- a) ☐ Adrenal Gland
- b) ☐ Pituitary Gland
- c) ☐ Thyroid Gland
- d) ☐ Pancreas

Q.13 Stroke volume is the amount of blood pumped out by each ventricle each beat \_\_\_\_\_.

- a) ☐ 120ml
- b) ☐ 110ml
- c) ☐ 100ml
- d) ☐ 70ml

Q.14 The menstrual cycle of 28 days ovulation occurs on \_\_\_\_\_.

- a) ☐ 18<sup>th</sup> day
- b) ☐ 14<sup>th</sup> day
- c) ☐ 16<sup>th</sup> day
- d) ☐ 28<sup>th</sup> day

Q.15 Which of the following NOT a constituent of Saliva?

- a) ☐ Salivary Amylase
- b) ☐ Mucus
- c) ☐ Lysosomes
- d) ☐ Pepsin

F.Y. B.SC. (NURSING) (2007 COURSE) : WINTER - 2017  
SUBJECT : ANATOMY & PHYSIOLOGY

Day : Tuesday  
Date : 03/10/2017

W-2017-3730

Time : —  
Max. Marks : 13

N.B.:

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

Seat No. \_\_\_\_\_

Total Marks Obtained: \_\_\_\_\_

Jr. Supervisor's Signature: \_\_\_\_\_

Signature of the Examiner: \_\_\_\_\_

SECTION - I

- 1) Urinary bladder is located in the region \_\_\_\_\_.
  - a) ☐ Umbilical
  - b) ☐ Hypogastric
  - c) ☐ Right inguinal
  - d) ☐ Left inguinal
- 2) Which of the following muscle is also known as an accessory muscle?
  - a) ☐ Diaphragm
  - b) ☐ Sternocleidomastoid
  - c) ☐ External intercostal
  - d) ☐ Internal intercostal
- 3) Purpose of lymph node is to \_\_\_\_\_.
  - a) ☐ Trap antigens
  - b) ☐ Trap macrophages
  - c) ☐ Trap antibodies
  - d) ☐ Trap hormones
- 4) The process of blood formation is known as \_\_\_\_\_.
  - a) ☐ Haemoptysis
  - b) ☐ Haemopoiesis
  - c) ☐ Hematology
  - d) ☐ Hemocytes

P.T.O.

- 5) Center for temperature regulation in brain \_\_\_\_\_
- a) ☐ Pons
  - b) ☐ Hypothalamus
  - c) ☐ Medulla
  - d) ☐ Pituitary gland
- 6) Ovulation day in 28 days menstrual cycle is \_\_\_\_\_
- a) ☐ 14<sup>th</sup> day
  - b) ☐ 10<sup>th</sup> day
  - c) ☐ 7<sup>th</sup> day
  - d) ☐ 15<sup>th</sup> day
- 7) Hip joint is classified as \_\_\_\_\_
- a) ☐ Hinge
  - b) ☐ Ball and Socket
  - c) ☐ Saddle
  - d) ☐ Pivot
- 8) Cerebrospinal fluid is present in \_\_\_\_\_
- a) ☐ Extradural space
  - b) ☐ Subdural space
  - c) ☐ Subarachnoid space
  - d) ☐ All of the above
- 9) 'P' wave in ECG is due to \_\_\_\_\_
- a) ☐ Ventricular depolarization
  - b) ☐ Atrial depolarization
  - c) ☐ Atrial repolarization
  - d) ☐ Ventricular repolarization
- 10) Amount of fluid filtered through glomeruli of both kidney per day.
- a) ☐ 70 to 80 liters
  - b) ☐ 90 to 120 liters
  - c) ☐ 100 to 110 liters
  - d) ☐ 180 to 200 liters





- 11) Urinary bladder is lined by \_\_\_\_\_.
- a) ☐ Stratified squamous keratinized epithelium
  - b) ☐ Stratified squamous non keratinized epithelium
  - c) ☐ Transitional epithelium
  - d) ☐ Pseudo stratified columnar epithelium
- 12) Nucleoli of the cell contains \_\_\_\_\_.
- a) ☐ RNA
  - b) ☐ DNA
  - c) ☐ DNA and RNA
  - d) ☐ None of the above
- 13) Lumbar puncture in adult is done at the vertebral level of \_\_\_\_\_.
- a) ☐ T<sub>12</sub> to L<sub>1</sub>
  - b) ☐ L<sub>1</sub> to L<sub>2</sub>
  - c) ☐ L<sub>2</sub> to L<sub>3</sub>
  - d) ☐ L<sub>4</sub> to L<sub>5</sub>
- 14) Pancreas secretes \_\_\_\_\_.
- a) ☐ FSH
  - b) ☐ Insulin
  - c) ☐ Progesterone
  - d) ☐ Androgens
- 15) Following are the contents of cubital fossa EXCEPT:
- a) ☐ Median Nerve
  - b) ☐ Brachial Artery
  - c) ☐ Tendon of Biceps brachia muscle
  - d) ☐ Ulnar Nerve
- \* \* \* \*

**F.Y. B.SC. (NURSING) (2007 COURSE) : WINTER - 2017**

**SUBJECT : ANATOMY & PHYSIOLOGY**

Day : Tuesday  
Date : 03/10/2017

**W-2017-3730**

Time : 09.00 A.M. TO 12.00 NOON  
Max. Marks : 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

**SECTION – II**

- Q.1** Write short notes on **ANY FIVE** of the following: [15]
- a) Classification of joints
  - b) Spleen
  - c) Structure of Nephron
  - d) Name the branches of coronary artery
  - e) Gluteus muscle
  - f) Salivary glands
  - g) Right lung

- Q.2** Describe mammary glands under the following headings:
- a) Shape and surfaces. [05]
  - b) Structures and blood supply. [05]
  - c) Lymphatic drainage and applied anatomy. [05]

**OR**

- Describe the shoulder joint under the following headings:
- a) Classification and bones taking part. [10]
  - b) Movements and muscle producing them. [05]

**SECTION – III**

- Q.3** Write short notes on **ANY FIVE** of the following: [15]
- a) Spermatogenesis
  - b) Functions of spleen
  - c) Reflex arch
  - d) Hormones of thyroid gland
  - e) Cerebro spinal fluid
  - f) Physiology of hearing
  - g) Functions of saliva

- Q.4** Describe in detail about cardiac cycle. [15]

**OR**

- Draw a neat diagram of liver and enumerate the function of liver. [15]

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