

MEDICAL

[BSCN 0823]

AUGUST 2023

Sub. Code: 2302

(APRIL 2023 EXAM SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(Revised Regulations for the candidates admitted from 2022-2023 onwards)

### FIRST SEMESTER

# PAPER II – APPLIED ANATOMY & APPLIED PHYSIOLOGY

Q.P. Code: 652302

Time: Three Hours

Maximum: 75 Marks

Answer Section A and Section B Separately Answer all the Questions

> SECTION – A (37 Marks) (APPLIED ANATOMY)

I. Multiple choice Questions:

 $(6 \times 1 = 6)$ 

Choose one correct answer in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.

- Coronary arteries are the branch of
  - A) Arch of aorta
- B) Ascending aorta C) Descending aorta D) Pulmonary artery
- Example for Ball and Socket joint
  - A) Knee joint
- B) Shoulder joint C) Elbow joint
- D) Wrist joint
- 3. Which of the following nerve supply the Biceps muscle?
  - A) Ulnar nerve
- B) Median nerve
- C) Radial nerve D) Musculo Cutaneous nerve
- Hepatopancreatic duct opens into
  - A) First part of duodenum
- B) Second part of duodenum C) Jejunum D) Ileum

- Cavity present in the hindbrain
  - A) Lateral ventricle

- B) Third ventricle C) Fourth ventricle D) Cerebral aqueduct
- 6. How may pairs of Spinal nerves present in thoracic level of Spinal cord
  - A) 8
- B) 5
- C) 12
- D) 4

II. Essay:

 $(1 \times 10 = 10)$ 

 Describe in detail about the arterial supply and venous drainage of heart with its Applied Anatomy?

#### III. Short answers:

 $(3 \times 5 = 15)$ 

- Gluteus maximus muscle and mention the structures covered by it.
- External features and relations of Kidney.
- Features of Synovial joint and its classification.

#### IV. Very short answers:

 $(3 \times 2 = 6)$ 

- Name the paranasal air sinuses.
- Name the ventricles of Brain.



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# SECTION - B (38 Marks) (APPLIED PHYSIOLOGY)

Choo	lultiple choice Questions: ose one correct answer in the Answer Sc ice should be given in Capital Letters.	eript. No overv	vriting s	$(7 \times 1 = 7)$ should be done.
1	If there is an injury in the hypothalamus re     A) regulation of body temperature     C) co-ordination during locomotion	B) de	cision ma	_
2	Which has the greatest renal clearance?     A) Para-aminohippuric acid (PAH)	B) Glucose	C) Inulii	n D) Urea
3	Which structure regulates the size of the per A) Sclera     B) Iris	upil? C) Cornea		D) Retina
4	Effects of hypothyroidism include all of th     A) Diarrhoea B) Lethargy	e following exe C) Cold intoler		D) Weight gain
5			myocar	dial contractility te
6.	6. The maximum volume of air contained in A) Tidal volume B) Vital capacity C)			
7.	A) An Uniporter B) A Syr C) An Antiporter D) An ex	mporter ample of Secon	ndary Ac	tive transport.
II. Es	essay:			$(1 \times 10 = 10)$
1.	<ul> <li>Define Erythropoiesis. Describe in detail a note on maturation factors.</li> </ul>	about the stage	s of Eryt	hropoiesis. Add
III. S	Short answers:			$(3 \times 5 = 15)$
1.	. Explain the composition and Functions of	CSF.		
2.	. Oxygen Transport			
3.	. Write about the composition and functions	of Saliva.		
IV. V	Very short answers:			$(3 \times 2 = 6)$
1.	. Name the Neuroglia.			
2.	. Name the refractory errors of the Eye.			
3.	. Name any four functions of Placenta.			

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MEDICAL

[BSCN 1223]

DECEMBER 2023

Sub. Code: 2302

(OCTOBER 2023 EXAM SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

(Revised Regulations for the candidates admitted from 2022-2023 onwards)

#### FIRST SEMESTER

## PAPER II – APPLIED ANATOMY & APPLIED PHYSIOLOGY

Q.P. Code: 652302

Time: Three Hours

Maximum: 75 Marks

Answer Section A and Section B Separately

Answer all the Questions SECTION – A (37 Marks)

(APPLIED ANATOMY)

I. Multiple choice Questions:

 $(6 \times 1 = 6)$ 

Choose one correct answer in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.

- Principal muscle of respiration
- A) Sternocleidomastoid B) Abdominal muscles C) Diaphragm D) Scalenus muscles
- Name the epithelium lining the urinary bladder
  - A) Simple epithelium

- B) Transitional epithelium
- C) Columnar epithelium

- D) Cuboidal epithelium
- Right side subclavian Artery is a branch of (
  - A) Arch of Aorta B) Carotid Artery C) Brachiocephalic trunk D) Brachial Artery
- 4. Which of the following nerve supply the Deltoid muscle?
  - A) Median nerve
     B) Radial nerve
- C) Ulnar nerve
- D) Axillary nerve
- 5. Which of the following is the feature of cardiac muscle?
  - A) Multinucleated
- B) Intercalated disc C) Branched
- D) Both B and C

- Lower extend of adult spinal cord.
  - A) L 1
- B) L 3
- C) S 2
- D) First coccyx

II. Essay:

Firstranker's choice

 $(1 \times 10 = 10)$ 

 Mention the Endocrine glands and describe in detail about the Thyroid gland with applied anatomy.

III. Short answer:

 $(3 \times 5 = 15)$ 

- Structure and Lymphatic drainage of Mammary gland.
- Pleura and its recesses.
- Diaphragm.

#### IV. Short answers on:

 $(3 \times 2 = 6)$ 

- Parts of Fallopian tube.
- Lavers of Skin.

FirstRanker.com between Skeletal muscles and Cardiac muscle.



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# SECTION – B (38 Marks)

(APPLIED PHYSIOLOGY)					
I. Multiple choice Questions: Choose one correct answer in the Answer Choice should be given in Capital Letters.	$(7 \times 1 = 7)$ r Script. No overwriting should be done.				
Neurotransmitters are substances     A) produced by muscles	B) signal molecules released at synapses				

ed at synapses D) found in neurons with myelin sheaths C) carry electrical impulses The difference in voltage between the inside and outside of a resting cell is called D) Repolarization B) Action potential Resting potential C) Depolarization Corpus callosum connects Two cerebral hemispheres B) Diencephalon and midbrain Medulla and Spinal cord D) Pons and Medulla 4. Which of the following is NOT a plasma protein? A) Fibrinogen B) Albumin D) Fibronectin Name the term given to the failure of bone marrow to produce RBC A) Aplastic anemia
 B) Hemolytic anemia C) Thalassemia D) Megaloblastic anemia 6. These cells of the testes secrete testosterone

A) Sertoli cells

B) Cells of germinal epithelium

C) Leydig cells

D) Secondary spermatocytes

7. In man, Cryptorchidism is the condition when

A) testes do not descend into the scrotum

B) there are two testes in each scrotum

C) testes degenerates in the scrotum

D) testes enlarges in the scrotum

 $(1 \times 10 = 10)$ II. Essay:

Describe in detail with a help of diagram the mechanism of Skeletal Muscle contraction.

III. Short answers:  $(3 \times 5 = 15)$ 

- What is Glomerular Filtration Rate? Add a note on the factors affecting GFR.
- Conducting system of the Heart.
- Write in detail about Visual pathway.

#### IV. Very short answers:

 $(3 \times 2 = 6)$ 

- Define Peristalsis.
- 2. What is chloride shift?
- Mention any two clinical features of Acromegaly.

FirstRanker.com Firstranker's choice

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