BACHELOR OF PHYSICAL EDUCATION EXAMINATION, 2023

(1st Year, 1st Semester)

Anatomy and Physiology

PAPER - CC - 102

Time: Three hours Full Marks: 70

Mention the Question number clearly before writing the answer.

Group - A

Answer any three questions.

 $15 \times 3 = 45$

- Name the components of the skeletal system. Classify bones in detail with examples. List out the functions of the skeletal system.
 2+8+5=15
- 2. Draw a typical synovial joint and label its parts. Classify the different types of joints. Elaborate the effects of exercise on muscular system. 5+5+5=15
- 3. Define nephron. Draw and describe the urinary system. Explain the functions of the urinary system and explain its role in sports. 2+6+5+2=15
- 4. Define vital capacity. Describe different parts of respiratory system. Explain different phases of inhalation and exhalation. 2+7+6=15
- 5. Classify nervous system. Describe the structural organizations of nervous system. Write the main functions of nervous system.

 3+7+5=15

Group - B

Write short notes (any two) of the following:

 $7\frac{1}{2} \times 2 = 15$

- 6. Nucleus
- 7. Composition and Functions of Blood
- 8. Mitochondria
- 9. Endoplasmic reticulum

Group - C

10. Write the correct option (any ten):

 $1 \times 10 = 10$

- i) Liquid connective tissues in the body are
 - a) blood and plasma

b) blood and saliva

c) blood and lymph

d) blood and extra cellular fluid

[Turn over

ii)	Strongest cartilage is found in the										
	a)	ear					1	b)	ribs		
	c)	interve	rtebral	discs			(d)	nose		
iii)	is the seat of cellular respiration.										
	a)	Riboso	me				1	b)	Mitochondria		
	c)	Centro	some				(d)	Lysosome		
iv)	Ma	tch the	follow	ing:							
	I.	Epiph	iysis				A.	r	middle portion of the bone	e	
	II.	Diaph	ıysis				B.	e	end portion of the bone		
	III.	Tendo	on			_	C.	r	nuscle to muscle		
	IV.	Ligan	nent				D.	r	nuscle to bone		
	Co	des:									
		I	II	III	IV						
	a)	В	A	C	D						
	b)	В	D	A	C						
	c)	В	D	C	A						
	d)	A	В	D	C						
v)	Which of the following organelle is called 'Suicidal Bag'?										
	a) Mitochondria						1	b)	Endoplasmic reticulum		
	c)	Lysoso	me				(d)	Ribosome		
vi)	Combination of heam with O ₂ is called										
	a)	Oxyhe	amoglo	bin			1	b)	Oxidation		
	c) Oxygenation						(d)	Oxidized heam		
vii)	Ho	Homeostasis means									
	a) Control of internal environment of the body										
	b)	b) Adaptation with the environment									
	c)	c) Constant environment of the body									
	d)	All of 1	the abo	ve						F. 000	
										[Turn over	

viii)	Hormone associated with the kidney is						
	a) renin	b) TSH					
	c) HGH	d) oxytocin					
ix)	Smallest blood cell is						
	a) Small lymphocyte	b) Platelet					
	c) RBC	d) Neutrophil					
x)	The function of nucleolus is						
	a) RNA synthesis	b) DNA synthesis					
	c) Histone synthesis	d) Ribosomal subunit synthesis					
xi)	Plasma membrane is composed of						
	a) Glycoproteins	b) Lipoproteins					
	c) Chromoproteins	d) Lipids					
xii)	Cell lining the walls of blood vessels is called						
	a) Muscular tissue	b) Epithelial tissue					
	c) Connective tissue	d) Nervous tissue					