PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023

(Fifth Semester)

Branch-BIOCHEMISTRY

DISCIPLINE SPECIFIC ELECTIVE - I: PHYSIOLOGY & ENDOCRINOLOGY

Time: Three Hours	. •	Maximum:	75 Marks
	SECTION-A (10 Answer ALL que questions carry E	estions	$(10 \times 1 = 10)$
1 The absorption of fructose (i) co-transport mechanism (iii) facilitated transport	e by intestinal muc n (i (i	osa is i)simple diffusion v)active transport	
Which of the following h(i) Peroxidases(iii)Amylases	(1	act in low pH? ii) Hydrolases iv) Proteases	
3 This pressure facilitates f (i) filtrate hydrostatic pre (iii) capillary hydrostatic	ssure (ne is being formed ii) osmotic blood pre iv) all of these	essure
4 Capillary hydrostatic pre (i) size of Bowman's cap (ii) an afferent arteriole i (iii)Bowman's capsule is (iv) an efferent arteriole	sule is significantl s narrow compared cup-shaped	y large l to efferent	merulus as
5 This hormone is not sec (i)PRH (iii)CRH	(amus (ii) FSH (iv)TRH	
6 This hormone is respons (i) Thyroxine and melate (iii) epinephrine and nor	onin	light" response (ii) insulin and gluca (iv)oestrogen and pro	
7 The cranial nerve that re (i)VII (iii)IX	(eat ii) VIII iv) X	
8 Which of the following(i) diocoel(iii) rhinocoel		or the third ventricle (ii) paracoel (iv) metacoel	of the brain?
9 Menstruation is due to _ (i) Reduction of FSH (iii) Reduction is Estro		(ii) Increase of LH one (iv) Decrease in	LH Cont. .

		1020 1211	Cont
(i).	losterone is secreted by Zona glomerulosa) Zona reticularis	(ii) Zona fasciculate (iv) Zona pellucida	
	SECTION - E	3 (35 Marks)	
	Answer ALI ALL Questions Ca	Questions arry EQUAL Marks	$(5 \times 7 = 35)$
11 a.	Explain the composition and function	ons of blood.	
	OR		
b.	Describe the role of GI tract.		
12 a.	What are the proteins involved in m	uscular contraction? Explai	in.
	OR		
b.	Give an account on glomerular filtra	ation.	
13 a.	Give a note on visual cycle.		· · · · · · · · · · · · · · · · · · ·
	OR		
b	Explain the structure and function of	of neuron.	
14 a.	Describe the disorders of pituitary g	gland.	
•	OR		
b	. Elucidate the general classifications	s of hormones.	4.14
15 a	. Write a physiological role of pancro	eas.	
	OR		
b	. Discuss the action of androgen and	estrogen.	
·	Answer any TH	C (30 Marks) IREE Questions Carry EQUAL Marks	$(3 \times 10 = 30)$
16.	Discuss the components of Respira		etions.
17.	Explain the structure and functions	of heart.	
18.	Elucidate the composition and fund	ctions of CSF.	
19.	Discover the biosynthesis and biol	ogical functions of thyroid	gland.
20.	Write a detail note on adrenal glan	d.	