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Enrolment No:



UPES

End Semester Examination, May 2023

Course: Human Anatomy & Physiology-II

Semester: 2

Program: BSC-FN&D-II, BSC-Microbiology-II, Int BMSC-Microbiology-II, Int BMSC-N&D-II, Int

BMSC-Clinical Research -II, BSC- Clinical Research -II

Duration: 3 Hours

Course Code: HSCC1007 Max. Marks: 100

Instructions:

S. No.	Section A	Marks	COs
	Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)		
Q 1	How are involuntary actions controlled by the brain?	1.5	CO-1
Q 2	What is a action potential?	1.5	CO-1
Q 3	What are the properties of synapse?	1.5	CO-1
Q 4	What are the enzymes present in pancreatic juice?	1.5	CO-2
Q 5	why does hydrolytic enzymes act in low pH?	1.5	CO-2
Q 6	What are various functions and part of respiratory system.	1.5	CO-3
Q 7	Name five conditions of the respiratory system?	1.5	CO-3
Q 8	Just posterior to the symphysis pubis; hollow, collapsible sac empty=deflated balloon; full=pear shape. Name this part.	1.5	CO-4
	i. Bladder		
	ii. Ureters		
	iii. External Urethral Sphincters		

	iv. Urethra		
Q 9	(A) The bladder is lined with epithelium. (0.5)	1.5	CO-4
	i. Simple columnar		
	ii. Transitional		
	iii. Stratified squamous		
	iv. Simple cuboidal		
	(B) Your bladder fills as faster as you age. (0.5)		
	i. True		
	ii. False		
	(C) Urine that has glucose in it usually an indicator of(0.5)		
	i. Diabetes		
	ii. Bacterial infection		
	iii. Kidney stones		
	iv. Muscle atropy		
Q 10	What are ductless glands?	1.5	CO-5
Q 11	(A) Which of this statement is INCORRECT regarding the	1.5	CO-5
V 11	function of hormones? (0.5)	1.0	
	i. Reproduction and sexual differentiation		
	ii. Maintenance of internal environment		
	iii. Maintain body temperature		
	iv. Development and growth		
	(B) Mark the one, which is NOT the precursor of the		
	hormone? (0.5)		
	i. Amino acids		
	1. I millio delab		
	ii. Cholesterol		
	ii. Cholesterol		
	ii. Cholesterol iii. Phospholipids		
	ii. Cholesteroliii. Phospholipidsiv. Proteins		
	ii. Cholesteroliii. Phospholipidsiv. Proteins(C). What is the precursor of steroid hormone? (0.5)		
	 ii. Cholesterol iii. Phospholipids iv. Proteins (C). What is the precursor of steroid hormone? (0.5) i. Protein 		
	 ii. Cholesterol iii. Phospholipids iv. Proteins (C). What is the precursor of steroid hormone? (0.5) i. Protein ii. Cholesterol 		

Q 12	Which hormone is decreased in the menstrual cycle causing menstruation?	1.5	CO-6
Q 13	During the formation of sperms what are the following stages that take place?	1.5	CO-6
Q 14	 (A) Which of them is a fat soluble hormone? (0.5) i. Amine hormone ii. Peptide hormone iii. Thyroid hormone iv. Protein hormone (B) Name the hormone which is synthesized from histidine amino acid? (0.5) i. Histamine ii. Epinephrine 	1.5	CO-5
	 iii. Norepinephrine iv. Dopamine (C) Name the gland, which releases Neurohormone. (0.5) i. Hypothalamus ii. Pituitary iii. Thyroid iv. Pancreas 		
Q 15	What are the parts of the endocrine system?	1.5	CO-5
Q 16	What happens to glycogen when blood sugar drops? What is the importance of neural responses to food stimuli?	1.5	CO-2
Q 17	How do hormones regulate digestion?	1.5	CO-2
Q 18	What is the Mechanism of Peptide Hormone Action?	1.5	CO-5
Q 19	Which organ in the human body does the fertilisation process occur and what is a fertilized cell called?	1.5	CO-6
Q 20	What are important hormones present in the human body?	1.5	CO-5
	Section B (4Qx5M=20 Marks)		
Q 1	Explain in detail the anatomy of the respiratory system with a diagram.	5	CO-3

Q 2	(A) Explain Physiology of urine formation. (2.5)	5	CO-4
	(B) Explain various steps of urine formation. (2.5)		
Q 3	(A) Explain the various Conditions and disorders affect the endocrine system. (2.5) (B) Explain Mechanism of hormone action. (2.5)	5	CO-5
Q 4	(a)Explain the Physiology of menstruation. (b)Explain protein synthesis in reproductive system.	5	CO-6
	Section C (2Qx15M=30 Marks)		
Q 1	 (A) Explain Lung Volumes and capacities transport of respiratory gases. (7.5) (B) Explain five diseases related to respiratory system with various kinds of treatments for the same. (7.5) 	15	CO-3
Q 2	(A)Explain Bladder Emptying and the Micturition Reflex (7.5)	15	CO-4
	(B) Explain with diagram kidneys and the urinary system: parts and functions. (7.5)		
	Section D (2Qx10M=20 Marks)		
Q 1	(A) Explain role of RAS in kidney and disorders of kidney. (5) (B) Explain Blood is filtered by the glomerulus & Kidneys and Acid–Base Balance. (5)	10	CO-4
Q 2	(A)Explain the following terms: (5) i. Ovulation ii. Luteal phase iii. Fertilization iv. Spermatogenesis	10	CO-6

v. Prokaryotic protein synthesis	
(B) Explain The genetic pattern of inheritance (5)	