


Name:			
Enrolment No:			
UPES End Semester Examination, December 2023			
Course: Human Anatomy and Physiology Program: B.Sc. (Food, Nutrition and Dietetics) Course Code: HSCC1025		Semester: I Time : 03 hrs. Max. Marks: 100	
Instructions: Attempt all the questions			
Q.No	Section A Short answer questions/ MCQ/T&F	(20Q x1.5M= 30 Marks)	COs
Q	Attempt all the questions		CO
1.	Which of the following is the function of ear? (a) Hearing (b) Balancing (c) Both a & b (d) Olfaction	1.5	CO2
2.	Which of the following structures is responsible for image formation? a) Cornea b) Iris b) Pupil d) Retina	1.5	CO1
3.	The class of adrenal gland hormones that regulate sodium and water balance in the body. (a) Glucocorticoids (b) Mineralocorticoids (c) Androgens (d) Catecholamines	1.5	CO2
4.	Which of the following blood vessels carries oxygenated blood? a) Vana cava b) Vein c) Pulmonary artery d) Pulmonary vein	1.5	CO3
5.	The respiratory system structure involved in the exchange of oxygen and carbon dioxide is. a) Trachea b) Diaphragm c) Bronchus d) Alveoli	1.5	CO3
6.	The first part of the Colcon is. a) Duodenum b) Jejunum c) Rectum d) Caecum	1.5	CO1
7.	In which of the following phases of cell division DNA synthesis occur? a) G1 phase b) G2 phase c) G0 phase d) S phase	1.5	CO3

8.	Which of the following types of cell communication is related to neurotransmitter release? a) Paracrine b) Autocrine c) Endocrine d) Synaptic	1.5	CO2
9.	How many Lumber bones are there in vertebral column? a) 1 b) 5 c) 7 d) 12	1.5	CO1
10.	Which of the following is a lymphatic organ? a) Thyroid gland b) Spleen c) Gall bladder d) Parathyroid gland	1.5	CO1
11.	Which of the following is not a hip bone? a) Ischium b) Ilium c) Malleus d) Pubis	1.5	CO1
12.	The subdivisions of the Autonomic nervous system are the _____ and _____ .	1.5	CO2
13.	Adrenergic neurons release _____ and cholinergic neurons release _____.	1.5	CO2
14.	Which sensory function is related to the gustation system?	1.5	CO3
15.	Which structure in nephron holds the Glomerulus?	1.5	CO3
16.	Which structure is followed by epididymis in male reproductive system.	1.5	CO2
17.	What is the function of uterus?	1.5	CO3
18.	What do you understand by translation process?	1.5	CO2
19.	Name a hormone responsible for milk secretion.	1.5	CO2
20.	What is the function of hypothalamus?	1.5	CO2
	Section B	(4Qx5M=20 Marks)	CO
Q	Attempt all the questions		
1.	Mention all the bones of axial skeleton system.	5	CO1
2.	Draw the complete structure of ear with labelling.	5	CO1
3.	Differentiate between sympathetic and parasympathetic system with at least five points.	5	CO2

4.	Write down the functions and numbers of RBC, WBC, and platelets.	5	CO2
Section C		(2Qx15M=30 Marks)	
Q	Attempt all the questions (Case studies)		CO
1.	<p>a. An elderly relative suffered a stroke and now has difficulty moving her right arm, and she also has speech problems. What areas of the brain were damaged by the stroke?</p> <p>b. Nicky has recently had a viral infection and now she cannot move the muscles on the right side of her face. In addition, she is experiencing a loss of taste and a dry mouth, and she cannot close her right eye. What cranial nerve has been affected by the viral infection?</p>	2*7.5=15	CO2
2.	<p>a. William has cystic fibrosis, a genetic disorder that is characterized by the production of excessive mucus, affecting several body systems (e.g., respiratory, digestive, reproductive). In the digestive system, the excess mucus blocks bile ducts in the liver and pancreatic ducts. How would this affect William's digestive processes?</p> <p>b. Antonio had dinner at his favorite Italian restaurant. His menu consisted of a salad, a large plate of spaghetti, garlic bread, and wine. For dessert, he consumed "death by chocolate" cake and a cup of coffee. He topped off his evening with a cigarette and brandy. He returned home and, while lying on his couch watching television, he experienced a pain in his chest. He called 911 because he was certain he was having a heart attack. Antonio was told his heart was fine, but he needed to watch his diet. What happened to Antonio?</p>	2*7.5=15	CO2
Section D		(2Qx10M=20 Marks)	
Q	Attempt all the questions		CO
1.	Discuss all the hormones of anterior pituitary with their release location and detailed function.	10	CO1
2.	Describe all the parts of urinary system with their individual functions.	10	CO1