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# ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27 **B.Sc. ZOOLOGY - III SEMESTER SEMESTER EXAMINATION: OCTOBER 2019 ZO 318 - HUMAN ANATOMY AND PHYSIOLOGY - PART I**

Time: 21/2 Hours Max. Marks: 70

> This paper contains two printed pages and four parts Note: Draw neat labelled diagrams wherever necessary Indicate the question numbers clearly.

# **PART A**

I. Ans	wer the following	7 X 1 = 7		
1.	The anatomical snuff box is a small triangular depression seen at the formed from	base of the thumb		
2.	The sweat glands are derived from layer of dermis of	of human skin.		
3.	During periods of inactivity in muscle contraction, phosphocreatine reform ATP. <b>TRUE / FALSE</b>	eacts with ADP to		
4.	The most common bacteria that has been found associated with ulce	rs is		
5.	Ammonia is converted into Urea inof man.			
6.	The pulmonary artery arising from the right ventricle of the human he blood to the lungs.	art carries		
7.	Bohr's effect is when the partial pressure of CO <sub>2</sub> is high, oxyhaemoglobin releases O <sub>2</sub>			
	TRUE / FALSE			
PART B				
II. Ans	swer any the following	4 X 2 = 8		

9. With a neat labelled diagram, depict the structure of the skeletal muscle fibre.

8. What is cauda equina and where is it found?

10. Match the following:

A. Gastrin 1. Stimulates release of intestinal juice

B. Secretin 2. Contraction of gall bladder resulting in release of bile

C. Cholecystokinin

3. Stimulates secretion of pancreatic fluid and

production of bile by liver

D. Enterokinase 4. Stimulates secretion of gastric juice

11. What are the main types of dialysis? Differentiate the basic principle involved.

### PART C

## III. Answer any FIVE of the following

5 X 5 = 25

- 12. List out the differences between the 1<sup>st</sup> and 2<sup>nd</sup> Atypical cervical vertebrae.
- 13. With a neat labelled diagram, explain the patella.
- 14. Describe the structure and function of an alveolus.
- 15. With reference to a nephron, explain the steps involved in urine formation in man.
- 16. Give an account of the accessory glands in the male reproductive system.
- 17. Mention the mechanisms involved in conservation of water in camels.
- 18. Explain the role of hypothalamus in thermoregulation.

#### PART D

### III. Answer any THREE of the following

10 X 3 = 30

- 19. With a neat labelled diagram, explain the bones of the cranium along with their sutures.
- 20. Describe cellulose digestion in ruminants and termites.
- 21. Mention the arteries in the thoracic and abdominal aorta and the regions to which they supply blood.
- 22. Write short notes on:
  - i. Role of haemoglobin as a respiratory pigment
  - ii. Bronchial disorders on the effects of smoking

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