Total No. of Questions. o	Total No.	of	Questions:	6
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#### Total No. of Printed Pages:2

Enrollment	No



Q.1

# Faculty of Science

## End Sem (Odd) Examination Dec-2019

#### FS3CO03 Human Anatomy

Knowledge is Power Programme: B.Sc. (Forensic) Branch/Specialisation: Forensic

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

i.	Fats are stored in human be	ody as	1
	(a) Cuboidal epithelium	(b) Adipose tissue	
	(c) Bones	(d) Cartilage	
ii.	Total number of bones in a	idult is	1
	(a) 208 (b) 206	(c) 213 (d) 220	
iii.	What type of joint is the sh	oulder?	1
	(a) Ball and Socket	(b) Ellipsoidal	
	(c) Hinge	(d) Pivot	
iv.	Which bone protects the br	rain?	1
	(a) Calcium	(b) Cranium	
	(c) Cerebellum	(d) Cerebrum	
v.	Nervous system consists or	f	1
	(a) Brain	(b) Spinal Cord	
	(c) Nerves	(d) All of these	
vi.	Which nerves are attached	to the brain and emerge from the skull?	1
	(a) Cranial Nerves	(b) Spinal Nerves	
	(c) Thoracic Nerves	(d) Sacral Nerves	
vii.	Which type of blood vesse	ls carries blood away from the heart?	1
	(a) Arteries (b) Veins	(c) Capillaries (d) All of these	
viii.	Oxygen and hemoglobin b	ind in a reversible manner to form	1
	(a) Carboxyhemoglobin	(b) Oxyhemoglobin	
	(c) Methoglobin	(d) BPG	
ix.	In which part of the body of	ligestion of protein begins?	1
	(a) Pancreas	(b) Stomach	
	(c) Small Intestine	(d) Large Intestine	
		P.7	Г.О.

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	х.	In which part of our body food	gets absorbed?	
		(a) Small Intestine (	(b) Large Intestine	
		(c) Stomach (	(d) Liver	
Q.2	i.	Define anatomy and physiolog	sy.	2
	ii.	Write the functions of vacuoles	s, cell membrane in the cell.	
	iii.	Write short note on:		4
		(a) Nucleus (	(b) Mitochondria	
		(c) Endoplasmic reticulum		
OR	iv.	Explain the animal cell structu	re and their function.	4
Q.3	i.	Why locomotion is necessary f	for organism?	2
	ii.	Discuss the different types of s of skeletal systems?	keletal systems. What are the functions	
OR	iii.	Explain different types of joints in the human body.		
Q.4	i.	How many parts are there in hu part.	uman brain? Write the function of each	•
	ii.	What is meant by reflex actions trace the sequence of events with	on? With the help of labelled diagram	•
OR	iii.	What is synapse? What is th	e role of synapse in neuronal cell in Draw a well labelled diagram of neuron.	•
Q.5	i.	What are the three types of circ of human heart.	culation? Draw a well labelled diagram	4
	ii.		cycle. Explain "double circulation".	•
OR	iii.		espiration. Describe the anatomy of the	Ì
011		lung along with figure.	or the second of	
Q.6		Attempt any two:		
	i.	Explain the process of digestic	on in the buccal cavity with a note on	
		the arrangement of teeth.		
	ii.	Explain digestion process in in	itestines.	4
	iii.	What is the significance of the	e gall bladder? Explain the role of bile	
		juice in digestion.		

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### Marking Scheme FS3CO03 Human Anatomy

Q.1	i.	Fats are stored in human body as		1	
	::	(b) Adipose tissue		1	
	ii.	Total number of bones in adult is (b) 206		1	
	iii.	What type of joint is the shoulder?		1	
		(a) Ball and Socket		4	
	iv.	Which bone protects the brain?		1	
		(b) Cranium		1	
	v.	Nervous system consists of			
	:	(d) All of these	fuero the elevation	1	
	vi.	Which nerves are attached to the brain and emerge (a) Cranial Nerves	from the skuil?	1	
	vii.	Which type of blood vessels carries blood away from the heart?  (a) Arteries			
	viii.	Oxygen and hemoglobin bind in a reversible manner to form			
		(b) Oxyhemoglobin			
<ul><li>ix. In which part of the body digestion of protein begins?</li><li>(b) Stomach</li></ul>		ıs?	1		
		(b) Stomach			
	х.	In which part of our body food gets absorbed?		1	
		(a) Small Intestine			
Q.2	i.	Definition of anatomy	1 mark	2	
		Definition of physiology	1 mark		
	ii.	Introduction of cell	1 mark	3	
		Vacuoles and its functions	1 mark		
		Cell membrane & its function	1 mark		
	iii.	Write short note on:		5	
		(a) Nucleus and its introduction	1 mark		
		(b) Mitochondria and its function	2 marks		
		(c) Endoplasmic reticulum	2 marks		
OR	iv.	Animal cell Introduction structure	2.5 marks	5	
		Their function and Structure	2.5 marks		
$\Omega^{2}$	i.	Introduction to organism	1 mark	2	
Q.3	1.	Introduction to organism Locomotion		2	
		LOCOMOTION	1 mark		

	ii.	Skeletal systems introduction and structure Introduction of Axial Introduction to appendicular Function of skeletal system	2 marks 2 marks 2 marks 2 marks	8
OR	iii.	Introduction to joints and its function Types of joints	4 marks 4 marks	8
Q.4	i.	Human brain and its parts	1.5 marks	3
		Function of each part	1.5 marks	
	ii.	Introduction to reflex action Structure and function	4 marks	7
		Diagram	2 marks	
		Event of reflex as example	1 mark	
OR	iii.	Introduction of synapse and function	5 marks	7
		Diagram	2 marks	
Q.5	i.	Three types of circulation with explanation		4
		1 mark for each (1 mark * 3)	3 marks	
		Diagram of human heart	1 mark	
	ii.	Cardiac cycle	3 marks	6
		"Double circulation"	3 marks	
OR	iii.	Internal and external respiration	3 marks	6
		Anatomy of the lung	2 marks	
		Diagram	1 mark	
Q.6		Attempt any two:		
<b>C</b> . s	i.	Process of digestion in the buccal cavity	3 marks	5
		Arrangement of teeth	2 marks	
	ii.	Process digestion explanation	4 marks	5
	11.		1 mark	J
	•••	Diagram  Call bladden structure and forestices		_
	iii.	Gall bladder structure and function	3 marks	5
		Role of bile juice and function	2 marks	

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