Bs/ZOO/M5(T)

in humans.

2025

With the help of (PyUGP) hagram explain

(5th Semester)

3. Describe the meYDOLOON urine formation

(MINOR)

Paper Code: ZOO/M5(T)

(Animal Physiology—II : Life Sustaining System)

Full Marks: 75 Pass Marks: 40%

Time: 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50) soinile all fore

The figures in the margin indicate full marks .3

1. Describe the process of lipid digestion and absorption in human. 5+5=10

(ECG). Explain the croin and significance of

Explain the various enzymes in gastrointestinal tract.

2. Describe the different types of respiratory pigments found in animals.

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(Turn Over)

2 00 5

With	the help	of a labelled	diagram,	explain
the	oxygen	dissociation	on cur	ve of
haem	oglobin.	ioleomiac II	10)	

10

3. Describe the mechanisms of urine formation in humans. MINOR-

10

Paper Code: ZOO/M5(T) Discuss the hormonal regulation of kidney me functions. I the Said : II-vaclotavid Lamin 10

Explain the mechanism of blood clotting system.

10

Or

Write an essay on Rh blood group system and its clinical importance. 10

5. Describe the origin and conduction of cardiac impulses in mammals.

10

Describe the processor lipid digestion and

Describe the principle of electrocardiogram (ECG). Explain the origin and significance of the components in an ECG wave.

eastrointestinal track

Describe the different types of respiratory

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Bs/ZOO/M5(T)

pigments found in animals.

To be filled in by the Candidate

INSTRUCTIONS TO CANDIDATES

- The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
- This paper should be ANSWERED FIRST and submitted within 1 (one) Hour of the commencement of the Examination.
- 3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Signature of Scrutiniser(s) Signature of Examiner(s)

		4
Bookle	t No. A	4.

Data Ct-

To be filled in by the Candidate

BA / BSc / BCom / BBA / BCA

5th Semester End Term

Examination, 2025 (FYUGP)

Roll No.

Regn. No.

Subject

Paper

DESCRIPTIVE TYPE

Booklet No. B

Signature of Invigilator(s)

2025
(FYUGP)
(5th Semester)
ZOOLOGY
(MINOR)
Paper Code: ZOO/M5(T)
(Animal Physiology—II : Life Sustaining System)
(PART : A—OBJECTIVE)
(Marks : 25)
The figures in the margin indicate full marks for the questions
I. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×15=15
1. The end products of carbohydrate digestion are
(a) amino acids (10) has a mino acids
(b) polysaccharides ()
(c) monosaccharides (c)
(d) nucleotides ()
Bs/ZOO/M5/217(T) [3] [P.T.O.

2.	The	main site of pr	roten	n dige	Stion is
	(a)	mouth ()		
	(b)	large intestine		()
	(c)	stomach	()	
	(d)	small intestine		()
3 1	Vitar	nin B ₁₂ absorp	tion	requi	rec.
0,	vitai	mir b ₁₂ absorp	LIOII	requi	CS
	(a)	Pepsin ()		
	(b)	intrinsic factor		()
	(c)	Lipase ()		
	(d)	extrinsic factor		()
4. T	The pabou	partial pressure t	of o	xygen	in alveolar air is
	(a)	60 mmHg	()	
	(b)	40 mmHg	()	
	(c)	120 mmHg	()	
	(d)	104 mmHg	(Put a Thic (n) in taudinus provid
5. T	he lisso	steep portion ciation curve re	of prese	the	oxyhaemoglobin
((a) 1	unloading of O_2	in t	issues	(10)
(<i>b)</i> 1	loading of O_2 in	lun	gs	
	(c) (CO ₂ transport	()	
((d) e	effect of pH	() ====	
Bs/ZOO/M5,	/217(T) [4	1		

o. The i	normal tidal volume in adults is about
(a)	1000 ml ()
(b)	500 ml ()
(c)	250 ml ()
(d)	100 ml ()
7. Ultra	filtration occurs in
(a)	collecting duct ()
(b)	distal convoluted tubule ()
(c)	loop of Henle ()
(d)	Bowman's capsule ()
8. Whic dista	h hormone increases permeability of the l tubule and collecting duct to water?
(a)	Aldosterone ()
(b)	ADH ()
(c)	Cortisol ()
(d)	Calcitonin () III touris (
Bs/ZOO/M5/217	7(T) [5] [P.T.O.

9. Dial	petes insipidus occurs due to deficiency of
(a)	ADH ()
(b)	renin ()
(c)	insulin ()
(d)	aldosterone ()
10. Plas	ma proteins include
(a)	collagen, elastin, actin ()
(b)	myosin, keratin, fibrin ()
(c)	albumin, globulin, fibrinogen ()
(d)	globin, haem, myoglobin ()
	hroblastosis fetalis occurs due to mpatibility of
(a)	ABO blood groups ()
(b)	Rh factor ()
(c)	MHC antigens ()
(d)	platelet antigens ()
12. The	clotting factor absent in haemophilia A is
(a)	factor VIII ()
(b)	factor IX ()
(c)	factor X ()
(d)	factor XII ()
/ZOO/M5 /21	7(T) [6]

Bs

13. The wall of the human heart is made up of
(a) epicardium, myocardium, endocardium ()
(b) epithelium, mesothelium, pericardium ()
(c) sarcolemma, endothelium, perimysium ()
(d) None of the above ()
14. ECG P-wave corresponds to
(a) ventricular depolarization ()
(b) atrial repolarization ()
(c) atrial depolarization ()
(d) ventricular repolarization ()
15. Purkinje fibres are found in
(a) atria ()
(b) ventricles ()
(c) SA node ()
(d) AV node ()
Bs/ZOO/M5/217(T) [7] [P.T.O.

- II. Write short notes on any five of the following: 2×5=10
 - 1. Absorption of water and electrolytes

minestaloges represent the (5)

2. Bohr effect

3. Role of ADH in water readsorption

4. ABO blood group system

[P.T.O. [11]

5. Haemoglobin

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[12]

6. Coronary circulation

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[P.T.O.

7. Hypertension Bs/ZOO/M5/217(T) [14] 8. Haldane effect

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15]

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