2019

ZOOLOGY

(Major)

Paper: 5.1

(Animal Physiology)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

1.	Fill i	n the blanks/Choose the correct answer:
		1×7=7
	(a)	Fibrinogen is produced by
	(b)	Myofibrils of heart are surrounded by
		The state of the s
	(c)	Monocytes and tissue macrophages are powerful
		Different varieties of leukocytes are found in (i) marrow pool
	. ; 69	(ii) blood pool
	r ide	
20A/	287	(Turn Over)

(i) pancreas

Stellate cells are found in

(ii) stomach

(e)

(iii) liver (iv) intestine Column of Bertin is present in (f) (i) heart (ii) nerve cell (iii) kidney (iv) muscle Nissl bodies are present (g) (i) in axon hillock (ii) in axon (iii) in allover the soma (iv) within dendrite 2. Answer the following: $2 \times 4 = 8$ Differentiate between myelinated and (a) non-myelinated nerve fiber.

What are the functions of proteolytic

Differentiate between granulocytes and

Write about the functions of myoglobin.

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(b)

enzymes?

agranulocytes.

- 3. Answer any three questions from the following: 5×3=15
 - (a) Describe briefly the structure and function of neuromuscular junction.
 - (b) Write a note on O₂ dissociation curve.
 - (c) Describe briefly about the process of chloride shift.
 - (d) Describe the saltatory propagation of nerve impulse.
 - (e) Write a note on the functions of pancreatic juice.
- Mention the different types of gastric glands.
 Describe the role of stomach in digestion.

3+7=10

Or

What is villi? What is the role played by intestinal villi? Describe the process of absorption in intestine. 1+3+6=10

5. Describe the process of blood clotting mechanism.

Or

Describe the structure and functions of different types of WBC. 5+5=10

6. What is muscle protein? What are the roles played by different types of muscle proteins during muscle contraction? 2+8=10

What is all-or-none law? Describe the process of impulse transmission through a non-myelinated nerve fiber. 3+7=10

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