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SUBJECT CODE NO: - F-6031
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem- II) (Zoology (Old))
Examination December/January-2022-23
General Animal Physiology-411

[Time:3:00 Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

N. B

1. Part – 'A' is compulsory
2. Attempt any five questions from Part 'B'
3. Draw a neat labeled diagram wherever necessary

Part-A

Q1 Attempt the following multiple choice questions.

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- 1) Saliva helps in digestion of...
 - a) Starch
 - b) Fiber
 - c) Proteins
 - d) Fats
- 2) Which among the following gland produces insulin, the chief hormone in the body for metabolizing sugar
 - a) Pancreas
 - b) Liver
 - c) Salivary gland
 - d) Intestinal glands
- 3) In transfusion, blood must be compatible not only in blood type but also in ...
 - a) Rh factor
 - b) The number of white cells
 - c) The number of red cells
 - d) Race of donor and recipient
- 4)Prevents blood clotting and blood loss
 - a) Plasma
 - b) Erythrocytes
 - c) Leucocytes
 - d) Thrombocytes
- 5) Which of the following pairs has a double circulation pathway?
 - a) Amphibians and Mammals
 - b) Birds and Mammals
 - c) Reptiles and Mammals
 - d) Fishes and Birds
- 6) Blood helps in transportation of the following components, except one-----
 - a) Hormones
 - b) Oxygen
 - c) Heat
 - d) Lymph
- 7) Which of the following is not a plasma protein
 - a) Albumin
 - b) Globulin
 - c) Fibrinogen
 - d) Fibronectin
- 8) Most of the carbon dioxide produced in the tissues is transported to the lungs as
 - a) Carbonates
 - b) Bicarbonates
 - c) Dissolved in the blood
 - d) Attached to hemoglobin
- 9) Where is the control center of reflex action?
 - a) In the cerebrum
 - b) In the cerebellum
 - c) In the vertebral cord
 - d) In the spinal cord

10) In the muscle contraction this ion is essential?

- a)Cl b)Ca c)K d)Na

Part –B

- Q2 What is digestion? Describe Mechanical and Chemical breakdown of food? 12
- Q3 Define the term ECG? Give the principle and significance of ECG? 12
- Q4 Describe the transport of gases? 12
- Q5 Write a note on central and peripheral nervous system? 12
- Q6 Describe the myogenic heart and neurogenic heart? 12
- Q.7 Write a note on molecular mechanism of synaptic transmission? 12
- Q.8 Describe the muscle contraction mechanism? 12