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SUBJECT CODE NO: - SS-6764
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Zoology) (Sem-III)
Examination May / June - 2023
Animal Physiology-I ZOO-311

[Time: 03:00 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 neat labelled diagram wherever necessary.

PART-A

Q1 Multiple choice questions

20

1. The respiratory organs in freshwater mussels are

A) Book lungs	B) Pulmonary sacs
C) Gills	D) Respiratory sipons
2. Water Vascular system is present in

A) Echinoderms	B) Nematodes
C) Molluscs	D) Arthropods
3. Oxygen carrying pigments in cockroach and other insects is

A) Haemoglobin	B) Haemozoin
C) Sclerozoin	D) None of these
4. Brain of arthropods initiate neurosecretion of hormone from a structure near

A) Heart	B) Mouth
C) Stomach	D) Brain
5. In..... there is no separate digestive gland.

A) Insects	B) Mammals
C) Birds	D) Fiches
6. Which part of an insect's body is responsible for respiration.

A) Mandibles	B) Ovipositor
C) Spiracles	D) Tympanum
7. Which type of insects undergoes complete metamorphosis.

A) Cockroach	B) Dragonfly
C) Moth	D) Cricket
8. Bipinnaria larva is found in the development of

A) Sea lily	B) Starfish
C) Sea cucumber	D) Sea stars

9. Which of the following system is found in echinoderms
 A) Nervous system
 B) Excretory system
 C) Respiratory system
 D) System of internal skeleton
10. In earthworms fertilization occurs in
 A) Oviduct
 B) Water
 C) Coon
 D) Ootheca

PART-B

- Q2 Explain osmotic and ionic mechanism in crustacean. 12
- Q3 Explain respiratory organ in insects 12
- Q4 Describe structure and functions of photoreceptor in insects. 12
- Q5 Describe growth and regulation in polycheta 12
- Q6 What is excretion? Describe urine formation in Mollusca 12
- Q7 Describe process of regeneration in echinoderms. 12
- Q8 Write short note on (Any two) 12
- A) Mechanoreceptors
 B) Factors affecting on reproduction in annelida.
 C) Coelomic fluid and coelomocytes