

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Zoology Degree Examination, March /April 2019

BZOL2B02 – Animal Diversity Nonchordata II

(2018 Admission onwards)

Time: 3 hours

Max. Marks : 80

I. One Word Questions (Answer all the Questions)

1. Name a living fossil.
2. What is Byssus thread.
3. Write the genus of Hermit Crab.
4. What are the locomotory organs of Astropecten.
5. Define Metamerism.
6. Name the animal commonly known as tusk shell.
7. Name the last body segment bears anus In Neries.
8. Name the larval stage of Mollusca.
9. A tubiculus Polychaete worm
10. What is Bonellia?

(10x1=10 Marks)

II. Paragraph questions (Answer any ten questions)

11. What is meant by evisceration? Write an example.
12. Write salient features of Onychophora with example.
13. Enlist the salient features of Phylum Ectoprocta.
14. Name the larval stages of
 - a) Annelida
 - b) Arthropoda
 - c) Mollusca
 - d) Hemichordata
15. What is oosphredium? Mention its function.
16. What is ink sac? Mention its function.
17. Describe sexual dimorphism with reference to *Penaeus*.
18. Name any two crustacean larvae and the classes to which they belong. What is their significance?
19. Write notes on Trychonympha.
20. With a neat labeled sketch, describe the structure and functions of parapodium.
21. Enlist the salient features of Trilobites.
22. With the help of a neat labeled diagram explain the structure of radula in *Pila*.

(10 x 2= 20 Marks)

III. Short Answer Questions (Answer any five questions)

23. Explain why *Peripatus* is considered as a connecting link. Comment on its g distribution.
24. Describe the digestive system of *Neries*.
25. Explain the following structures
- a) Statocyst b) Stone Canal c) Osphredium
- d) Nuchal organs e) Protostome
26. Explain how earthworms are beneficial to human beings. Write a note on vermiculture.
27. Write a note on *Dentallium*.
28. Write notes on Class polychaeta. Give an example.
29. What is Heteronereis? Explain its significance.
30. With the help of a neat labeled diagram explain the nervous system of *Pila*.
- (5x6= 30)

IV. Essay Questions (Answer any two questions)

31. With the help of neat labeled diagrams explain the appendages of *Penaeus*.
32. Enumerate the general characters and outline classification of phylum Echinodermata upto classes with suitable examples.
33. Explain the salient features of any three coelomate minor phyla, with suitable examples.
34. Describe the nervous system of *Nereis* with a labeled diagram.
- (2x10= 20)

M19116

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Botany Degree Examination, March /April 2019

BZOL2C02 – Economic Zoology

(2018 Admission onwards)

Time: 3 hours

Max. Marks : 64

(Give illustrations and figures where ever necessary)

One word questions. (Each question carries 1 mark). Answer all questions.

Name a coconut pest.

The disease caused by hook worm.

The lac that remains attached to the bark of the host tree.

Scientific name of tea mosquito.

Pig's meat infested with live cysticercus.

Scientific name of the fresh water prawn.

The infection in which host itself acts as an agent.

The causative agent of 'Kala-azar'.

Scientific name of 'blood fluke'.

Name the biological control agent of *Opisina*.

(10 x 1 = 10marks)

Short answer questions. (Answer any 7, Each question carries 2 marks).

1. What is a vector? Give one example.

2. Describe the pathogenic effects of *Wuchereria*.

3. Differentiate ecto and endoparasites with one example each.

4. How contaminative infection occur. Explain.

5. Describe the control measures of *Leptocorisa*.

6. What are pheromones? Mention its function.

7. What are parasitoides? Give an example.

8. Explain the preparation of fish glue.

9. Write notes on the damage caused by *Batocera*.

10. What are systemic insecticides?

(7 x 2 = 14marks)

III. Paragraph questions. (Answer any 4, each question carries 5 marks)

21. Write down the features of male and female *Schistosoma*.
22. Describe the damage and control measures of *Dacus*.
23. Describe the culture techniques of mussel farming.
24. What is meant by induced breeding? Explain.
25. Comment on bee products and its uses.
26. Write down various steps involved in biological control.

(5 x 4 =

IV. Essay questions. (Answer any 2, Each question carries 10 marks).

27. Explain in detail the kinds of pests and causes of pest outbreak.
28. Explain requirements and methods of pisciculture.
29. Describe the life cycle, pathogenic effects and prophylaxis of *Taenia solium*.
30. Describe different types of insect control methods.

(2 x 10 =

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Second Semester B.Sc Psychology Degree Examination, March /April 2019

BZOO(PSY2)C02 – Human Physiology

(2018 Admission onwards)

Time: 3 hours

Max. Marks : 80

PART A

Answer all questions. Each question carries 1 mark

Choose the correct answer from the following options given below

Which division of nervous system consists of brain and spinal cord?

- a. CNS
- b. ANS
- c. SNS
- d. PNS

Which lobe of brain is also known as auditory cortex?

- a. Frontal
- b. Parietal
- c. Temporal
- d. Occipital

Pia matter is the inner most layer of-----

- a. Cortex
- b. Meninges
- c. Spinal cord
- d. Ventricle

----- cells produce CSF in the brain

- a. Astrocytes
- b. Neuron
- c. Ependymal
- d. Microglia

The imaging technique which uses multiple planes of X ray to produce 3D image

- a. CT scan
- b. MRI
- c. PET scan
- d. CBF

----- prevent the backward movement of nerve impulse on axon membrane

- a. RMP
- b. Refractory period
- c. Threshold
- d. Na K pump

Fill in the blanks

7. ----- is the lowest part of brain connected with spinal cord
8. The change in the resting potential due to inward movement of----- ions is known as depolarization
9. ----- are the chemical messengers which carry nerve impulse across synapse.
10. Conduction of nerve impulse on myelinated neuron is known as -----
11. Dreaming occurs predominantly during -----*sleep.
12. ----- is a reversible lesion method which causes no permanent damage to brain tissue.

(12 x 1 = 12 Marks)

PART B

Answer any *seven* questions. Each question carries 2 mark

13. Classification of neuron based on number of projections from soma
14. Grey matter and white matter of nervous system
15. Na^+ - K^+ Pump
16. Node of Ranvier
17. Nissle granules
18. Ionotropic effect of neurotransmitters
19. Name the major glial cells and its function
20. MRI and CT
21. Paradoxial sleep

(7 x 2 = 14)

PART C

Answer any *six* questions. Each question carries 5 marks

22. Structure of neuron
23. Explain the divisions of nervous system
24. Types of reflex action
25. Basal ganglia and its motor functions
26. Mid brain
27. CSF
28. Meninges
29. Sleep theories

(6 x 5 = 30)

PART D

Answer any *three* questions as essay. Each question carries 8 marks

30. Discuss cerebrum. Explain specific and association areas of cerebral cortex
31. Explain synapse? Classification of synapse, Physiology of synaptic transmission
32. Write an essay on Brain imaging technique
33. What is nerve? Explain Structure and classification. Mention Dermatome
34. Explain the functions and divisions of nervous system

(3 x 8 = 24)