

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Zoology Degree Examination, November 2018

BZOL1B01 - Animal Diversity – Non Chordata – 1

(2017 Admission onwards)

Max. Time: 3 hours

Max. Marks : 80

I. One Word Questions (Answer all the questions)

1. Who is the father of taxonomy?
2. Give an example for uninomial nomenclature.
3. What is the symmetry observed in *Hydra*?
4. Write an example for a Mesozoan.
5. Which structure in *Paramecium* is associated with defence?
6. Which protistan is known as *bell animalcule*?
7. Which is the simplest type canal system in sponges?
8. What is the type of association observed between adamsia and hermit crab?
9. Name the phylum to which *Chaetonotus* belongs.
10. What are the specialised excretory cells in platyhelminthes called?

(10 x 1=10 marks)**II. Paragraph Questions (Answer any ten questions)**

11. Differentiate between classical and natural systematics.
12. What is Cyclosis? How is it helpful in the nutrition of *Paramecium*?
13. What is red tide? How is it harmful to marine fauna?
14. Write on the association between *Trichonympha* and termite.
15. Enlist the eight kingdoms as proposed by Cavaller-Smith.
16. Explain the structure of trichocysts?
17. Explain the unique features of *Pleurobrachia*.
18. Briefly explain the features of Sub Kingdom Mesozoa.
19. Write on Amphiblastula.
20. Write notes on the pathogenicity of *Enterobius*.
21. How organisms are classified according to Cadistics?
22. Describe the structure of gonangium.

(10 x 2=20 marks)

III. Short Answer Question (Answer any five questions)

23. Explain the structure and function of the aboral sensory receptor in *Pleurobrachia*.
24. Write down the differences between polyp and medusa.
25. Explain Metagenesis in *Obelia*?
26. Write notes on *Noctiluca*.
27. Elaborate on Five Kingdom classification.
28. Write down the parasitic adaptations of *Ascaris*.
29. Explain the internal organisation of axial filament.
30. What are the peculiar features in the life history of *Fasciola*?

(5 x 6 = 30 marks)

IV. Essay Questions (Answer any two questions)

31. Elaborate on the canal system in sponges.
32. Write an essay on ICZN and its important rules.
33. Write notes on
 - a) *Plasmodium*
 - b) *Euplectella*
 - c) *Physalia*
 - d) *Echinococcus*
 - e) *Dicyema*
34. Classify Phylum Platyhelminthes down to classes giving salient features. Give examples.

(2 x 10 = 20 marks)

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(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Botany Degree Examination, November 2018
BZOL1C01 – Animal Diversity & Wild Life
(2017 Admission onwards)

Max. Time: 3 hours

Max. Marks : 64

(Give illustrations and figures where ever necessary)

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

1. The organism known as King Crab.
2. Name the phagocytic cells found in endothelial lining of liver of Rabbit.
3. Who proposed the Five-Kingdom Classification?
4. Name the central cavity of the body of poreferans.
5. A sanguivorus annelidan ectoparasite.
6. The blood filled perivisceral cavity of arthropods.
7. The animal with electric organs.
8. The dental formula of *Oryctolagus*.
9. Echolocation is seen in which organism?
10. Expand IUCN.

(10x1=10 Marks)

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

11. Write four unique features of class Mammalia.
12. What are Gemmules?.
13. Differentiate Polyp and Medusa.
14. Differentiate between Chondrichthyes and Osteichthyes.
15. What is a Biosphere Reserve?
16. Name a Polymorphic colonial coelenterate. Mention its different kinds of zooids with their function.
17. Distinguish between male and female prawn with reference to external features.
18. Give the arboreal adaptations of Chamaeleon.
19. Mention the features of Noctiluca.
20. Briefly describe the four glands associated with the digestive system of Rabbit.

(7x2=14 Marks)

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

21. What are the evolutionary significance of Peripatus?
22. With the help of a neat labelled diagram explain the structure of brain of Rabbit..
23. Explain various causes of loss of Biodiversity.
24. Write down the features of Ascaris. Add a note on its parasitic adaptations and pathogenic effects.
25. List the salient features of Class Mammalia.
26. Write notes on a) Sacculina and b) Ascidia. **(4x5=20 Marks)**

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

27. Explain the digestive system of Rabbit.
28. Write an essay on the digestive system of Penaeus.
29. Briefly describe the causes for the loss of Biodiversity.
30. What is Red Data book? Briefly describe the causes of species extinction. **(2x10=20 Marks)**

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(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2018

BZOO(PSY1)(C01) – Human Physiology

(2017 Admission onwards)

Max. 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

1. In eukaryotic animal cell----- is absent
 a. Nucleus b. Cell wall c. Mitochondria d. Ribosomes
2. Bio molecule which is insoluble in water and soluble in organic solvent
 a. Protein b. Carbohydrate c. Lipids d. Nucleic acid
3. A nucleoside combines with a phosphate group and become a -----
 a. Nucleosome b. Nucleotide c. Nucleoprotein d. Nucleolus
4. Meiosis happens in----- cell
 a. Somatic b. germinal c. gametic d. epithelial
5. Who is the father of genetics?
 a. Mendel b. Watson c. Crick d. Robert Brown
6. A karyotype 44A + XO is termed as-----
 a. Down syndrome b. Edward syndrome c. Turner syndrome d. Cri du chat

Fill in the blanks

7. ----- is known as power house of the cell.
8. ----- is also known as reduction division.
9. Blood and bone are example of ----- tissue
10. During meiosis chiasma forms between non sister chromatids of ----- chromosome
11. In heterozygous condition the expressed character is known as ----- character.
12. All enzymes are-----

(12 x 1 = 12 Marks)

PART B

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

13. Unit of life
14. Types of cell
15. Homologous chromosomes
16. Osmosis
17. epistasis
18. Monohybrid cross
19. Nucleosome
20. Silent mutation
21. mRNA

(7 x 2 = 14 Marks)

PART C

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

22. Classification of chromosomes
23. Explain the process of Protein synthesis
24. Major roles of lipids in a living system
25. Write a note on cell cycle.
26. Explain dominant and recessive character.
27. Write a note on down syndrome
28. Classify Muscle tissue
29. Explain sex linkage and criss cross inheritance

(6 x 5 = 30 Marks)

PART D

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

30. Explain the structure of plasma membrane and transport across membrane
31. Explain the process of mitosis with diagram
32. Discuss about gene mutation and gene mutation disorders
33. Explain chromosomal mutation and common chromosomal anomalies
34. Explain the structure of DNA and the process of DNA replication

(3 x 8 = 24 Marks)