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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Third Semester BSc Zoology Degree Examination, November 2017
ZO3B03T - Animal Diversity Chordata I
(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

I. One Word Questions (Answer all the questions)

1. Write the scientific name of Amphioxus.
2. Name of Urochordata showing metamorphosis.
3. Name the larva of *Petromyzon*.
4. Name any two cartilaginous fishes.
5. How many orders belong to the class Osteichthyes?
6. Name any two poisonous snakes of Kerala.
7. Name the larva of Salamander.
8. Scientific name of blindworm.
9. Name the largest turtle.
10. Write the order of *Sphenodon*.

(10 x 1 = 10 Marks)

II. Paragraph Questions (Answer any ten questions)

11. What is meant by neoteny? Give an example.
12. Comment on the significance of *Olikopleura*.
13. Explain retrogressive metamorphosis?
14. Enlist the salient features of the class Chondrichthyes.
15. Write notes on Protopterus.
16. Mention the class Holocephali.
17. Differentiate between *Crocodylus* and *Gavialis*.
18. What are the major features of *Ichthyophis* and *Uraeotyphlus*?
19. Mention the types of respiration in Frog.
20. Enlist the salient features of the order Anura.
21. Write notes on *Hippocampus*.
22. Mention the classification of Reptilia up to order.

(10 x 2 = 20 Marks)

III. Short Answer Questions (Answer any five questions)

23. What are the major characters of Chordates?
24. Write notes on class Ascidiacea with example.
25. Explain the digestive system of Mullet with diagram.
26. Describe the peculiarities and distribution of Dipnoi.
27. Describe the major characters of order urodela with any two examples.
28. With neat labeled diagram explain the reproductive system of frog.
29. Describe the salient features of the order Crocodilia. Give examples.
30. Explain the major features of sub-class Anapsida with examples.

(5 x 6 = 30 Marks)

IV. Essay Questions (Answer any two questions)

31. Write an essay on the affinities and systematic position of *Branchiostoma*.
32. Classify Pisces down to subclasses with salient features and examples.
33. With neat labeled diagram explain the arterial system of frog.
34. Explain the identification key for poisonous and non-poisonous snakes (2 x 10 = 20 Marks)

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
 Third Semester BSc Botany Degree Examination, November 2017
 ZO3C03 – Physiology, Toxicology and Ethology
 (2016 Admission onwards)

Max. Marks: 64

Max. Time: 3 hours

[Give illustrations wherever necessary.]

(10 x 1 = 10 Marks)

I. One word question (Answer all questions)

1. Who proposed Fluid-mosaic model of plasma membrane?
2. What is the normal systolic arterial pressure in humans?
3. Name the cycle of reactions by which muscle lactic acid is transformed to muscle glycogen.
4. Name the contractile protein which forms thick filament in skeletal muscle.
5. Give two examples of non-primate mammals which exhibit social behaviour.
6. Give an example to Toxicant which cause abnormal development, inborn defects and malformations.
7. Give an example of excitatory neurotransmitter.
8. Name the disease condition where the normal glutamic acid in the 6th position of beta chain is replaced by lysine.
9. The protein-lipid material which forms a sheath around the axon.
10. Name the scientist who recognized the four major groups of human blood.

II. Short Answer questions. (Answer any Seven)

(7 x 2 = 14 Marks)

11. What is Carbon monoxide poisoning?
12. What is Phototaxis? Give example.
13. What is meant by Lethal dose?
14. What is all or none law?
15. What is Circadian rhythm?
16. Distinguish between hypoxia and asphyxia.
17. Mention any four harmful effects of smoking.
18. What is Habituation? Give example.
19. What is agglutination?
20. List four functions of Plasma membrane.

III. Paragraph question - (Answer any Four of the following)

(4 x 5 = 20 Marks)

21. Explain the biochemical pathways of blood coagulation.
22. Elucidate the structure and working of human heart.
23. Explain the various communication signals in animals.
24. Discuss the harmful effects due to accumulation of radioactive wastes.
25. Explain the Carbon dioxide transport mechanism in humans.
26. Discuss the importance of fibre in the food.

IV. Long Essay - Answer any two of the following

(2 x 10 = 20 Marks)

27. Describe step by step the formation of Urea in Ureotelics.
28. Explain the fundamental processes in the transmission of nerve impulses.
29. What is Learning? Discuss the various types of learning with examples.
30. Describe the various categories of toxicants and their hazardous effects on public health.