(Pages: 2)

Reg. No:....

Name: FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Degree Examination, November 2022

BZL3C04 - Human Physiology (2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

Part A Answer all questions. Each, question carries Two marks. Ceiling - 20 Marks

- 1. What is astigmatism? What are its corrective measures?
- 2. Explain the trichromatic theory of colour vision.
- 3. What is organ of Corti? What is its function?
- 4. Which are the primary sensations of taste in man?
- 5. How smell signals are transmitted to CNS?
- 6. Classify nociceptors according to stimulating agents?
- 7. How tactile corpuscles respond to stimulus?
- 8. Write on the four types of mechanoreceptors in human skin.
- 9. How thyroid gland regulates circulating calcium levels?
- 10. How placenta functions as an endocrine organ?
- 11. What are the different types of papillae on human tongue.
- 12. What do you understand by olfactory bulb?

Part B Answer all questions. Each question carries Five marks. Ceiling - 30 Marks

- 13. Describe the organisation of retina.
- 14. Explain the process of auditory perception.
- 15. Elaborate on the organisation of olfactory membrane.
- 16. Write on different modes of hormone action
- 17. Explain about different visual defects.
- 18. Write notes on the role of hormones secreted by thyroid gland.
- 19. How human gonads function as endocrine organs?

Each question carries Ten marks.

- 20. Write an essay on the structure and functioning of human eye.
- 21. Describe the structure of adrenal gland and the role of adrenal hormones.

 $(1 \times 10 = 10 \text{ Marks})$

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Reg. No:....

Name: FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2022 BZL3B03 - Animal Diversity Chordata Part - I

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

Answer the following questions. Each carries two marks

- 1. What are the advanced characters of Chordates?
- 2. Name any two subterranean fishes?
- 3. Comment on the temporal fossa in reptiles.
- 4. Mention about the atrium in Amphioxus?
- 5. Comment on Anguilla?
- 6. Give the significance of Ammocoetus larva?
- 7. What are the characters of Ascidian tadpole?
- 8. What is nueromast organ?
- 9. What is mullerian duct?
- 10. Comment on Hylonomous.
- 11. Give the characters of *Amblystoma*?
- 12. Write notes on Gavialis.

(Ceiling 20)

SECTION B Answer the following questions. Each carries five marks

- 13. Classify an d give the characters of Urochordata?
- 14. Explain the brain of Mugil?
- 15. Write a note on Actinopterigii?
- 16. Write a note on poisonous snakes of Kerala.
- 17. Explain the circulatory system of Mugil?
- 18. Give the characters and examples of Urodela?
- 19. Prepare the identification key for venomous and non-venomous snakes of Kerala?

(Ceiling 30)

SECTION C Answer any one question

- 20. Explain the circulatory system of Calotes?
- 21. Explain the diversity of Frogs in Western Ghats?

 $(1 \times 10 = 10 \text{ Marks})$

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Reg.	No:	 	

Name: FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Botany Degree Examination, November 2022 BZL3C03 - Physiology and Ethnology

(2019 Admission onwards)

Time: 2 hours

Max, Marks: 60

I. Short answer questions. Each question carries 2 marks.

- 1. What are the major functions of plasma membrane?
- 2. What is meant by BMR? What is its significance?
- 3. What are the major physiological adaptations of diving mammals?
- 4. What is meant by arteriosclerosis?
- 5. Write short notes on hemolytic jaundice.
- 6. Differentiate between stenohaline and euryhaline animals.
- 7. Briefly describe nephrosis.
- 8. Comment on Rigor mortis.
- Describe acetyl choline as a neurotransmitter.
- 10. What is the significance of aggression?
- 11. Briefly describe altruism.
- 12. What is meant by photoperiodism?

(Ceiling: 20 marks)

II. Paragraph questions. Each question carries 5 marks.

- 13. Give a brief account on the nervous and hormonal control of digestion.
- 14. Describe the structure of hemoglobin with necessary diagrams.
- 15. Discuss urea cycle in brief.
- 16. Describe the generation of action potential in a neuron.
- 17. Discuss instinctive behaviour with a suitable example.
- 18. What is courtship behaviour? What is its significance?
- 19. What is meant by migration? Evaluate its advantages and disadvantages.

(Ceiling: 30 marks)

III. Essay questions. Answer any one question.

- 20. Describe the biochemistry and physiology of muscle contraction and relaxation.
- 21. Write an essay on the different types of learned behaviors in animals.

 $(1 \times 10 = 10 \text{ marks})$