2B3N24022	(Pages: 2)	Reg. No:
		Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2024 BBT3C03 - Morphology, Systematic Botany, Economic Botany, Plant Breeding & Horticulture

(2022 Admission onwards)

Time: 2 hours Max. Marks: 60

SECTION A

(Answer all questions, each question carries 2 marks. Ceiling: 20 Marks)

- What is twisted aestivation? Cite an example.
- 2. What is synandrous condition? Cite example.
- 3. Write a brief note on the significance of botanical gardens.
- 4. What is numerical taxonomy?
- 5. Write a brief note on the androecium in Faboideae and Mimosoideae.
- 6. Describe the distinguishing vegetative features of Malvaceae.
- 7. Write the binomial and family of Pepper and Cardamom.
- 8. What are beverages? Cite examples with binomial and family.
- 9. What is mutation breeding? Cite an example
- 10. Write a brief note on pureline selection. Cite example.
- 11. Write a brief note on air layering.
- 12. Write a brief note on tongue grafting.

SECTION B

(Answer all questions, each question carries 5 marks. Ceiling: 30 Marks)

- 13. Write an account on the different types of fruits. Cite examples.
- 14. What is effective publication? Write the conditions given in ICN on effective publication.
- 15. What is cytotaxonomy? Discuss its role in solving taxonomic problems. Cite examples.
- 16. Write a note on the salient floral features of Poaceae.
- 17. Write brief notes on the following, citing their binomial, family and morphology of useful parts: (a) Black gram (b) Gingelly.
- 18. What is polyploidy breeding? Discuss its significance. Cite examples.
- 19. Write brief notes on Patch and T- budding, Cite examples.

SECTION C

(Answer any one question, each question carries 10 marks, $1 \times 10 = 10$ Marks)

- 20. Write an essay on the various types of Inflorescences, citing examples.
- 21. What is herbarium? Write an account on the preparation of Herbarium. Discuss its significance. Cite the names of two major herbaria in India.

Reg.	No:	 	

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2024 BZL3B03 – Animal Diversity Chordata Part – I

(2022 Admission onwards)

Time: 2 hours Max. Marks: 60

Section A

I Short answer questions. Each question carries 2 marks

- 1 Mention the characteristic features of sub class Anapsida
- 2 Write short note on sphenodon.
- 3 Explain neotony with suitable example.
- 4 Mention the special features of Rhacophorus
- 5 Distinguish between cartilaginous fishes and bony fishes
- 6 Name i) any two cartilaginous fishes ii) any two bony fishes
- 7 Comment on the significance of ammocoetus larva
- 8 Explain the evolutionary significance of ostracoderms
- 9 Briefly explain the excretory organs of Amphioxus
- 10 What is endostyle? Comment on its significance
- 11 What is tunic?
- 12 .Mention the significant chordate features of ascidian tadpole

(Ceiling: 20 marks)

Section B

II Paragraph questions. Each question carries 5 marks

- 13 Write a brief account on common venomous snakes of Kerala
- 14 Explain the discovery of Nasikabatrachus sahyadrensis
- 15 Comment on the affinities and systematic position of Dipnoi
- 16 Explain the structure and function of neuromast sense organs
- 17 Describe the features of super order Holostei with suitable example
- 18 What are the salient features of class cyclostomata.
- 19 Comment on the systematic position of Amphioxus.

(Ceiling: 30 marks)

Section C

III Essay questions. Answer any one question.

- 20 Describe the digestive system of Mullet.
- 21 Explain the retrogressive metamorphosis with special emphasis on Ascidian tadpole.

(1x10 = 10 marks)

•	134	I Pa I			26	
,	14.	чъ	10	100	712	
_		400	4	20.0	4 U	

(Pages: 1)

Reg.	No:.		٠										
Mars	o:												

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Botany Degree Examination, November 2024 BZL3C03 - Physiology and Ethology

(2022 Admission onwards)

Time: 2 hours Max. Marks: 60

Section A

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

- 1. What is orientation?
- 2. What is altruism?
- 3. What is circadian rhythm?
- 4. Define osmoregulation?
- 5. What is tachycardia?
- 6. What is rigor mortis?
- 7. Which blood group is considered to be universal recipient?
- 8. What is active transport?
- 9. What is ammonotelism? Give one example.
- 10. Give one example each for excitatory and inhibitory neuro transmitters.
- 11. What is asphyxia?
- 12. What is meant by anorexia nervosa?

(Ceiling: 20 marks)

Section B

II. Paragraph questions. Each question carries 5 marks

- 13. Describe significances of fasting
- 14. Briefly describe learned behaviours in animals
- 15. Draw a labelled diagram of neuromuscular Junction
- 16. Describe synaptic transmission of nerve impulse
- 17. Explain molecular organization of haemoglobin
- 18. Briefly describe transport of carbon dioxide
- 19. Describe functions of blood

(Ceiling: 30 marks)

Section C

III. Essay questions. Answer any one question.

- 20. With the help of suitable diagram explain the structure, chemical composition & functions of plasma membrane.
- 21. Write an essay on the contraction of skeletal mucle.