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Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2023 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)

- Compare the features of aggregate and multiple fruits. Cite examples.
- 2. Explain syngenesious stamen citing example.
- 3. Write a brief note on the significance of herbarium.
- 4. Write a brief note on the petals in Faboideae and Caesalpinioideae.
- Describe the gynoecium in Apocynaceae.
- 6. Describe the distinguishing floral features of Malvaceae.
- 7. Write the binomial and family of Tea and Coffee.
- 8. Write the binomial and morphology of the useful parts of Clove and Cotton.
- 9. What is intergeneric hybridization? Cite example.
- 10. What is Mass selection? Cite example
- 11. Write a note on layering.
- 12. Write a note on repotting. What is its significance?

SECTION B

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

- 13. What is aestivation. Write notes on the different types of aestivation citing examples,
- 14. What is Valid publication? Write the conditions in ICN on valid publication.
- 15. What is Chemotaxonomy? Discuss its role, citing examples in solving taxonomic problems.
- 16. Write notes on the salient floral features of Euphorbiaceae.
- 17. Write notes on two medicinal plants, citing their binomial, family and morphology of useful parts.
- 18. Write a note on breeding for disease resistance. Cite examples.
- 19. Write a note on different methods of grafting. Cite examples.

SECTION C

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

- Write an essay on the concept 'Flower as a modified shoot'. Discuss the evidences in 20. support of this.
- Write an essay on Bentham and Hooker's system of classification. Discuss its merits and 21. demerits.

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Zoology Degree Examination, November 2023 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. What are stem reptiles? Mention one example
- 2. Comment on the arboreal adaptations of Chamaeleon.
- 3. Write the scientific name of the following:
 - i.) Rhacophorus ii) Purple frog
- iii) blind worm iv) Indian bull frog

- 4. What is urostyle?
- 5. Comment on the importance of Latimeria
- 6. Name any four subterranean fishes
- 7. Mention the importance of Neoceratodus
- 8. Discuss the special features of Chondrostei
- 9. What do you meant by chorda dorsalis?
- 10. What is atrium? Comment on its role
- 11. What do you meant by wheel organ? Mention its function.
- 12. Discuss the significant chordate features of ascidian tadpole

(Ceiling: 20 marks)

Section B

II Paragraph questions. Each question carries 5 marks

- 13. Write brief note on non venomous snakes of Kerala.
- 14. With suitable diagram explain 8th and 9th vertebrae of frog
- 15. Write notes on distribution of lung fishes with suitable examples
- 16. Explain the features of Ammococtes larva
- 17. Explain classification of pisces down t order with examples.
- 18. Comment on the conclusion of phylogeny of urochordata
- 19. With schematic diagram explain the life cycle Ascidia.

(Ceiling: 30 marks)

Section C

III Essay questions. Answer any one question.

- 20. Describe the classification of Class Reptilia
- 21. Explain the salient features of sub phylum vertebrata

(1x10 = 10 marks)

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester B.Sc Botany Degree Examination, November 2023

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 imprinting?
- 2. What is habituation?
- 3. What is circadian rhythm?
- 4. Define osmoregulation?
- 5. What is bradycardia?
- 6. What is sarcomere?
- 7. Which blood group is considered to be universal donour?
- 8. What is facilitated diffusion?
- 9. What is uricotelism? Give one example.
- 10. Give one example each for excitatory and inhibitory neuro transmitters.
- 11. What is asphyxia?
- 12. Briefly describe significance of fasting

(Ceiling: 20 marks)

Section B

II. Paragraph questions. Each question carries 5 marks

- 13. Write a note on importance of fibres in diet
- 14. Briefly describe learned behaviours in animals
- 15. Draw a labelled diagram of neuromuscular Junction
- 16. Briefly describe hormonal regulation of urine production
- 17. Describe osmoregulatory adaptations of desert animals
- 18. Briefly describe transport of oxygen
- 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 transmission of nerve impulses across an axon membrane.

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