1M3N18235	(Pages: 1)	Reg. No:
		Name:
FAROOI	K COLLEGE (AUTONOMOU	JS), KOZHIKODE
	mester M.Sc Degree Examination	
	MZOL3B07—PHYSIOL	
	(2017 Admission onward	
Max. Time: 3 hours		Max. Weightage: 3
I. Weightage: 1 (A	Answer all)	
0 0 1	ands assist in digestion?	
2. What is renal cleara		
	at help in respiration?	
		pacity related to lung diseases?
	n's disease affect the daily life	
	n of Golgi tendon body?	of a patient.
	by calorie value of food?	
8. How do we perceiv		
9. What is the relation	ship between stroke and circul	atory system?
10. What is lethal temp		
11. What are the function	ons of lymph?	
12. How does acidity at	ffect transport of gases?	
13. Why antioxidants a	re important for our health?	
14. What is renal cleara	ince?	
		(1x14=14 weightage
	nswer any seven)	
	Broca's area and Wernicke's a	
	of olfaction with suitable diag	
	chemical and neural regulation	n. Discuss.
	ism of concentration of urine.	
19. Heart has specialise		
20. Discuss the role of l		
21. Discuss the electrop		
22. Discuss the tempera	ture regulatory mechanisms in	our body.

- 23. Discuss the role of spinal cord in reflex action.
- 24. Describe the structure and functions of cerebellum.

(2x7=14 weightage)

III. Weightage:4 (Answer any two)

- 25. Human brain is challenged with several abnormalities. Discuss.
- 26. Discuss the digestion of proteins, lipids and carbohydrates.
- 27. Discuss in detail the formation and consolidation of memories.
- 28. What are pulmonary volumes and capacities? Discuss in detail.

1M3N18236	(Pages: 2)	Reg. No:
		Nama

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester M.Sc Degree Examination, November 2018 MZOL3B08 – Microbiology & Biotechnology

(2017 Admission onwards)

Max. Time: 3 hours Max. Weightage: 36

I. Answer the following

- 1. Comment on GATT
- 2. Write notes on Pseudomonas putida
- 3. RNA i
- 4. What are cell lines?
- 5. What is gene therapy?
- 6. Comment on SNPs.
- 7. What are Cosmids?
- 8- Comment on Bergey's manual
- 9. Write notes on pili and fimbriae.
- 10. Comment on candidiasis.
- 11. Give an account of DNA viruses.
- 12. Write notes on SARS.
- 13. Comment on Hassuer counting chamber.
- 14. What are disinfectants.

(14 x1=14 Weightage)

II. Answer any seven of the following

- 15. Explain blue white selection method.
- 16. Describe genomic libraries.
- 17. Explain VNTR and its applications.
- 18. What is DNA sequencing? Explain Sangers technique.
- 19. Write notes on restoration of degraded lands by biotechnological methods.
- 20. Give a brief account on the structure of a typical virus.
- 21. What are antibiotics, Describe the types, preparation and mode of action of antibiotics.
- 22. Briefly describe the microbiological analysis of drinking water.
- 23. Explain the mechanism of Gram staining.
- 24. Mention the methods used for enumeration of microbial cell number.

(7 x2=14 Weightage)

III. Answer any two of the following

- 25. Give a detailed account on PCR technology, its procedure, types and applications.
- 26. Write an essay on ethical and social implications of biotechnology.
- 27. Explain the structure of bacterial cell wall with short notes on peptidoglycan synthesis.
- 28. Write an essay on human diseases caused by bacteria.

(2 x4=8 Weightage)

1M3N18237	(Pages: 1)		

Reg. No:

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Third Semester M.Sc Degree Examination, November 2018

MZOL3E01(5) - Wildlife Biology-1 Biodiversity and Biota

(2017 Admission onwards)

Max. Time: 3 hours

Max. Weightage: 36

Answer the following:-Weightage-1

- 1. Olive Ridley Turtle
- 2. Indian Giant Squirrel.
- 3. Nilagiri Langurs.
- 4. Order Cetacea.
- 5. Malabar Civet.
- 6. One horned Rhinoceros.
- 7. Gibbon
- 8. Indian Pangolin.
- 9. Define Endemism giving example.
- 10. Gharial.
- 11. Hot spots of India.
- 12. Endemic Bird Areas.
- 13. Foraging behaviour of Birds.
- 14. Feeding habits of Indian Wild Dog.

 $(14 \times 1 = 14 \text{ weightage})$

II. Answer any seven of the following:-Weightage-2

- 15. Feeding and Breeding habits of Lemurs.
- 16. Courtship and pair selection in Birds.
- 17. Endemic Amphibians of Western Ghats.
- 18. Population status and Distribution of NilgiriTahr.
- 19. Satpura Hypothesis.
- 20. Vocalisation and its role in Birds.
- 21. Briefly describe the Order Chiroptera.
- 22. Explain the economic importance of Birds.
- 23. Discuss the threats faced by the Amphibians of Western Ghats.
- 24. Territoriality and functions of territory.

 $(7 \times 2 = 14 \text{ weightage})$

III. Answer any two of the following:-Weightage-4

- 25. Write an essay on the Socio-biology of Lion.
- 26. Amphibians endemic to Western Ghats and their major threats.
- 27. Write an essay on the Biology and major conservation strategies for the Order Cetacea.
- 28. Essay on Endemic Indian Birds and Endemic Bird areas.

 $(2 \times 4 = 8 \text{ weightage})$