

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Fourth Semester M.Sc Degree Examination, March /April 2019
MZOL4E03(5) – Wild Life Biology III- Wildlife Management
(2017 Admission onwards)

Time: 3 hours

Max. weightage: 36

I. Answer all the following
Make a brief note of the following

1. HSI
2. Frugivores
3. Vegetation cover
4. Abundance.
5. Pellet count.
6. Chemical immobilisation.
7. Lincoln index.
8. Remote sensing.
9. Karyotyping.
10. Goup foraging theory
11. Moonlit zoo.
12. EIA.
13. Track count.
14. Status of Indian peafowl

(14 x 1 =14 Weightage)

II. Answer any seven of the following

15. List down major Indian laws regarding the management of wild life.
16. Write notes on nutritional deficiency diseases in animals.
17. What are the functions of a zoo?
18. How does the forage poisoning affect the herbivores?
19. Briefly explain the sex determination in birds.
20. What are the steps for preventing forest fire?
21. Give a brief account on indirect counting techniques in population estimation?
22. Explain HEP.
23. Comment on the significance of videography in mammalian studies.
24. Point out the criteria of radio telemetry.

(7 x2 = 14 Weightage)

III. Answer any two questions.

25. Discuss the status of Pheasant management in India
26. Describe the habitat management procedures.
27. Explain the impact of pollution on wild life.
28. Discuss the common methodologies followed in modern wild life studies.

(2 x 4=8 Weightage)

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Fourth Semester M.Sc Degree Examination, March /April 2019
MZOL4E02(5) – Wild Life Biology II- Wildlife Conservation
(2017 Admission onwards)

Time: 3 hours

Max. weightage: 36

I. Answer the following (Weightage -1)

1. What is meant by shifting cultivation ?
2. Briefly mention the various afforestation programmes of the Government.
3. National River Conservation Programme (NRCP)
4. Write notes on the problems of exotic species mentioning suitable examples.
5. Indian Forest Act.
6. Resolutions of IUCN.
7. Write notes on BNHS? Mention two important publications?
8. What is meant by compression hypothesis.
9. What is a wildlife corridor? Mention its significance'
10. Define Island Biogeography theory.
11. Discuss the role of WWF in promoting wildlife conservation in India.
12. Joint Forest Management.
13. Describe the Pet trade in India.
14. Project Hangul.

(14 x 1 = 14 weightage)

II. Answer any seven of the following (Weightage - 2)

15. Discuss the ecological principles of conservation.
16. Give an account of Sea Turtle project.
17. Write notes on human- animal conflict and its impacts on wildlife?
18. Briefly explain the conservation values and ethics.
19. Ecological and social importance of Sacred groves.
20. Distinguish between sanctuaries, national parks and Biosphere reserves.
21. Briefly describe the major Grass land ecosystems.
22. Give an account of Ramsar sites of Kerala.
23. Ex-situ conservation strategies.
24. Tribal groups in Kerala.

(7 x 2 = 14 weightage)

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

25. Characteristics features, importance, management, protection and Administration of National Parks in Kerala.
26. Write an essay on the role of Government and voluntary organization in wildlife conservation.
27. Give a brief account of wildlife protection Act 1972 in India and its amendments.
28. Write an essay on ecotourism and its impacts on wildlife.

(2x4 = 8 Weightage)

1M4M19228

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Fourth Semester M.Sc Degree Examination, March /April 2019
MZOL4B09 – Immunology & Cytogenetics
(2017 Admission onwards)

Time: 3 hours

Max. weightage: 36

I. Answer all the following questions.

1. Distinguish between primary and secondary lymphoid organs with suitable examples
2. What is immunogenicity? Mention any two factors that influence immunogenicity
3. Explain the principle of RIA
4. What is epitope? Mention any two properties of B-cell epitope
5. Write short notes on Type 1 hypersensitivity
6. Briefly discuss the role of IP3 in cell signaling
7. Write short notes on SCID
8. Enlist any four immune responses during HIV infection
9. Give a brief account of immunological basis of graft rejection
10. What is chimeric antibody?
11. What are cell adhesion molecules? Cite two examples
12. What are hemidesmosomes?
13. Distinguish between necrosis and programmed cell death
14. State the features of Adaptive immunity

(14x 1= 14weightage)

II. Answer Any Seven questions of the following questions

15. Explain the features of organ specific autoimmune diseases with a suitable example
16. Briefly explain Hybridoma technology
17. Briefly describe the mechanism of agglutination reactions
18. Explain the composition and functions of CD3 complex
19. Explain the role of cytokines in immune system
20. Provide a brief account of cellular distribution of MHC molecules

21. Write notes on recombinant vector vaccines
22. Briefly describe the composition of extracellular matrix
23. Explain the features of G-protein coupled receptors and discuss its role in the signaling via cAMP
24. Describe the intrinsic pathway of apoptosis

(7x 2 = 14 weightage)

III. Answer Any two of the following

25. With suitable diagrams discuss the molecular mechanisms involved in homologous recombination of DNA in eukaryotes
26. What are complements? Describe different pathways of complement activation
27. Describe different pathways of processing and presentation of antigens
28. Discuss the reasons for generation of antibody diversity

(2x 4 = 8 weightage)