

Mid-West University
Examinations Management Office

Chance Examinations -2080

Bachelor level/ B.Sc. / 8th Semester

Time: 3hrs

Subject: Applied and Economic Zoology (ZOO481)

Full Marks: 100

Pass Marks: 50

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

Very short answer questions (Any ten). [10x1=10]

1. a) What is the purpose of pheromone trap in crop pest control?
- b) Define wucheriasis.
- c) Name two cultural methods of pest controls.
- d) Differentiate between biofertilizers and chemical fertilizers.
- e) Name any four vaccines provided by Nepal's government?
- f) Name the vector insects of Leishmaniasis.
- g) What is the disease caused by *Plasmodium*?
- h) Define zoonotic disease with an example?
- i) Define the term polyculture.
- j) Enlist any four bee-products.
- k) Define genetically modified organism (GMO)?
- l) How DNA fingerprinting is helpful to us?

Short answer questions (Any eight). [8x5=40]

2. Write in brief about the life cycle and crop infestation by *Tryporyza* spp.
3. Explain the process of formation of vermicompost manure.
4. Discuss briefly about various Riverine system in Nepal.
5. Introduce ELISA technique.
6. What are common viral disease of Nepal? How can we prevent viral diseases?
7. What is mixed culture? Write the importance of mixed culture in context of Nepal.
8. Write briefly about the technique of induced breeding.
9. Write short note on 'biofuel'.
10. Mention the importance of energy recycling.
11. Write short note about honey bee diversity of Nepal.

Long answer questions. (Any five). [5x10=50]

12. Describe the life cycle, crop damage, and treatment and control measures of *Leucinodes* sp.
13. Mention the principles of IPM. Prepare a checklist of various pest control measures.
14. Why the bio-fertilizers is advantageous in farmland? Describe various types of bio-fertilizers.
15. Describe the life cycle of *Ascaris lumbricoides*. Discuss its treatment and control measures.
16. Enlist the various vaccines provided by the WHO Expanded Program on Immunization (EPI) schedule of Nepal.
17. Introduce DNA technology and highlight the application of recombinant DNA technology.

The End