# Mid-West University

# **Examinations Management Office**

**End Semester Examinations 2081** 

Bachelor level/ B. Sc./ 5th Semester

Time: 3 hours

Subject: Evolutionary and Developmental Biology (ZOO451)

Full Marks: 60

Pass Marks: 30

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

## Group A

## Attempt any four questions from this group:

(4x8=32)

- 1. Describe Microevolution with its causes and examples.
- 2. Explain Lamarckism with suitable examples.
- 3. Describe formation of extra-embryonic membrane in Rabbit.
- 4. Describe the types of placenta on the basis of histological structure.

OR

Explain Mesozoic era with major events.

#### Group B

### Answer any seven questions in brief from this group:

(7x3=21)

- 5. Explain formation of neural tube in bird.
- 6. Describe types of fossils on the basis of their formation.
- 7. Elaborate concept of Adaptive radiation.
- **8.** Write a short note on Macroevolution?
- 9. Describe types of cleavage.
- 10. Explain structure of egg of hen.
- 11. How blastocyst of Rabbit is implanted? Describe.

How natural selection plays vital role in formation of new species?

#### Group C

### Write very short answer of the following questions (any seven):

(7x1=7)

- 12. What is role of genetic mutation in evolution?
- 13. Write functions of allantois.
- 14. What is primitive streak?
- 15. What is half life?
- 16. Give any two examples of Isolecithal egg.
- 17. Define fertilization.
- 18. Define Speciation.
- 19. What is geographical isolation?
- 20. Define Modern Synthetic Theory of evolution.

#### The End