

NAVRACHANA UNIVERSITY
B.Sc. Program
School of Liberal Studies and Education
Semester II
End Semester Examination
Academic Year 2016 – 2017

Course Title: Classification of Animals – II (ZO105)

Marks: 40

Date: 9/05/2017

Time: 10:30 am –12:30 pm

Important Instructions

1. All the Questions are Compulsory
 2. Please read the questions carefully and answer accordingly
 3. Draw a neat and labelled diagram wherever necessary
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Q1. Fill in the blanks

(10 M)

1. The dissimilar teeth in mammals are called _____.
2. “Acorn worms” belong to phylum _____.
3. Common name of *Lissemys punctata* is _____.
4. _____ reacts with carbohydrate which transforms into glucose.
5. In birds sound is produced by _____.
6. The body of a _____ regulates its temperature.
7. Some chordates keep a _____ all their lives, in others it is replaced by a backbone.
8. _____ is a fish that is believed to be an ancestor to land living.
9. _____ is a balancing organ found in fishes but only is Osteichthyes
10. Amphibian eggs are _____

Q2. Match the following

(3 M)

- | | |
|----------------------------------|---|
| a) Anapsid Skull | i) Gills, lungs, skin and buccal lining |
| b) Diapsid skull | ii) Bungarus, Crotalus and Hydrophis |
| c) Respiration in amphibia | iii) Turtles |
| d) Respiration in protochordates | iv) Python, Trinket |
| e) Poisonous snakes | v) Gill slits, pharynx and body surface |
| f) Non poisonous snakes | vi) Birds, tuatara, lizards |

Q3. Answer the following questions in one line

(5 M)

1. State the location of Hatschek’s groove.
2. Give scientific name of a) Mongoose b) Sand boa
3. State function of endostyle.
4. Define double circulation.
5. What do birds migrate?

Q4. Answer the following questions in short

(10 M)

1. What is Jacobson organ?
2. Difference between ratite and carinate?
3. What is the basic structure and function of air sacs?
4. Why are amphibians more prone to environmental changes?
5. Give basic structure of fish heart and its circulation pathway.

Q5. Answer the following questions in detail (Any 4)

(12 M)

1. Describe the structure of nephridium of Amphioxus with labelled diagram?
2. Discuss reproductive system of Calotes with labelled diagram.
3. Write a note on flight adaptations in Birds.
4. Describe the origin of amphibia.
5. Describe metamorphosis in frog.
6. Describe the respiratory system of Scoliodon.

ALL THE BEST