

Enrollment ID: _____

NAVRACHANA UNIVERSITY
School of Liberal studies and Education
(BSc. Program)
End Semester Examination November 2017
TY-BSc 5th Semester

Course Title: Taxonomy, ethology and economic zoology (ZO301)

Marks: 40

Date: 20/11/2017

Time: 1:00 pm -3:00 pm

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Important Instructions

1. All the Questions are Compulsory
2. Please read the questions carefully and answer accordingly
3. Draw a neat and labeled diagram wherever necessary

Q1. Fill in the blanks

(1× 6= 6 M)

1. In *Panthera leo persica*, leo is _____ and persica is _____
2. _____ behaviour is exhibited by newborn animals for attention, care or help from other individuals.
3. QMP stands for _____.
4. _____ fish eats mosquito larva's.
5. A _____ is a source of heat to keep chicks warmer during the first four to six weeks of age.
6. When two individuals interact with no benefit for either of them _____

Q2. Multiple choice question

(0.5× 10= 5 M)

1. *Ricinus communis* is the scientific name of :
 - a. Papaya
 - b. Castor
 - c. Oak
 - d. Jute
2. Study of evolutionary history of a species or a large group of organisms is called :
 - a. Taxonomy
 - b. Euphenics
 - c. Phylogeny
 - d. Euthenics
3. A sea slug normally responds to being poked by curling up. After being poked repeatedly the slug no longer curls up. This is an example of:
 - a. Dishabituation
 - b. Habituation
 - c. Sensitization
 - d. Operant conditioning
4. Which of the following is NOT a reason for a species to migrate:
 - a. Following food source
 - b. Reaching good breeding grounds for mating
 - c. Global warming
 - d. Seasonal climate change
5. Bulk of Eri silk and Muga Silk are produced in
 - a. Karnataka
 - b. Bihar
 - c. Kerala
 - d. Assam
6. The unfertilized eggs of honey bees, develop into:
 - a. Queen
 - b. Drones
 - c. Worker
 - d. None of the above
7. *Laccifera lacca* belongs to the class:
 - a. Arachnida
 - b. Crustacea
 - c. Hexapoda
 - d. Diplopoda

8. Asiatic – Brahma breed is known for
 - a. Only Egg laying
 - b. Only Meat
 - c. Meat and egg laying both
 - d. None of the above
9. An area where salt water and fresh water meet:
 - a. Fresh water
 - b. Marine water
 - c. Brackish water
 - d. Salt water
10. _____ common parasite of lac insect
 - a. Antheraea
 - b. Chalcid
 - c. Apis
 - d. Arachnid

Q3. State whether following statement is true or false with justification (1× 5= 5 M)

1. GnRH stands for Gestation repression Hormone.
2. Liquid paraffin can be used for storage of semen samples.
3. *Laccifer lacca* is viviparous.
4. Imprinting is controlled by genes.
5. New castle disease is caused by bacteria.

Q4. Answer the following questions (5× 2= 10 M)

1. Explain two major forms of classification.
2. Discuss Aflatoxicosis and its causes and effects on poultry birds.
3. Comment on the economic benefits procured from aquaculture.
4. Define altruism and explain with help of an example.
5. Differentiate between Anagenesis and Cladogenesis.

Q5. Answer the following questions in detail (Any 4) (4×3 = 12 M)

1. Apis is known for social behavior Discuss
2. What evidence would you accept that an animal is “thinking”?
3. How does associative learning differ from non-associative learning? How does classical conditioning differ from operant conditioning?
4. Give details of steps involved in induced breeding of carps.
5. What is speciation? Explain the concept of speciation with help of an example.

Q6. State your comments on Insect resource and their utilization for economic prosperity of Indian tribal communities. (2 M)

*****ALL THE BEST*****