

Enrollment ID: _____

NAVRACHANA UNIVERSITY
School of Liberal studies and Education
(BSc. Program)
End Semester Examination November 2017
FY-BSc 1st Semester

Course Title: Classification of Animals (LS102)

Marks: 40

Date: 22/11/2017

Time: 10:30pm -12:30pm

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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 × 5 = 5 M)

1. Respiratory structures in spiders are called
2. Mantle is the characteristic of the phylum.....
3. The causative organism of Gambian fever is
4. The function of contractile vacuole is
5. protozoan is responsible for Malaria.

Q2. Choose the correct option

(0.5 × 10 = 5 M)

1. The following taxa possess the highest number of species.
 - a) Insecta
 - b) Reptilia
 - c) Pisces
 - d) Mammalia
2. Cyclops is an example of the phylum
 - a) Echinodermata
 - b) Nematoda
 - c) Arthropoda
 - d) Annelida
3. Hydrostatic skeleton is present in;
 - a) Earth worm & Jelly fish
 - b) Cockroach
 - c) Cray fish
 - d) Millipedes
4. An earth-worm moves from place to place;
 - a) Peristaltic waves of contractions of circular and longitudinal muscles
 - b) To and fro movements of many tiny parapodia
 - c) Many small pseudopodia called Setae
 - d) Rolling movements caused by statocysts
5. *Acyclostoma dueodenela* a parasite of human small intestine is commonly known as
 - a) Hook worm
 - b) Pin worm
 - c) Thread worm
 - d) Guinea worm
6. In multicellular organisms the integumentary and nervous system develop from
 - a) Mesoderm
 - b) Archenteron
 - c) Endoderm
 - d) Ectoderm
7. Many colonial coelenterates such as "Corals" produce a hard exoskeleton composed of
 - a) Sodium carbonate
 - b) Calcium carbonate
 - c) Calcium phosphate
 - d) Silicon dioxide
8. in which group of animal phyla alternation of generation is present
 - a) Coelenterate
 - b) Nematodes
 - c) Aschelminthes
 - d) Parazoa

9. Which of the following statement is false about sponges
- Most sponges are asymmetrical
 - Water exits from a sponge through the osculum
 - Asexual Reproduction by gemmules
 - Ciliated, free swimming larval stage is called planua.
10. Bilateral symmetry, metameric segmentation, coelom and open circulatory system are present in :
- Annelida
 - Arthropoda
 - Platyhelminthes
 - Mollusca

Q3. Match the following

(0.5 × 6 = 3 M)

- | | |
|------------------------|---------------|
| i) Flame cell | a) Euglena |
| ii) Malphigian Tubules | b) Salamander |
| iii) Renette cell | c) Spider |
| iv) Parapodia | d) Paramecium |
| v) Cilia | e) Cockroach |
| vi) Pedipalps | f) Planaria |
| | g) Nereis |
| | h) Round worm |

Q4. Answer the following questions

(1 × 5 = 5 M)

- What is the definition of Notochord?
- Give two examples of organisms belonging to class Arachnida.
- State function of typhlosole.
- State location and function of Madriporite.
- Which disease is caused by *Wuchereria bancrofti*?

Q5. Answer the following questions in brief

(2 × 4 = 8 M)

- Differentiate between Polyp and Medusa
- Give scientific names of following organisms:
 - Lion
 - Tape worm
 - Earthworm
 - Jelly fish
- Classify the following organism: a) Squid b) Leech
- Differentiate between Chondrichthyes and Osteichthyes.

Q6. Answer the following questions in detail (Any 4)

(3 × 4 = 12 M)

- Comment on different types of canal system found in poriferan's with help of neat labeled diagram.
- Give general characteristics and outline classification of class Insecta.
- Explain the different type of coelom's found in organisms. Support your answer with suitable examples and diagrams
- Write a note on economic importance procured by phylum Annelida.
- Give a detailed account of water vascular system of Echinoderms'.

Q7. Comment on disease spread by mosquito's and suggest few strategies for controlling mosquitoes borne diseases in India. (2M)

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