

**Bangabasi College**  
**Zoology Honours**  
**1<sup>st</sup> Year Hons. Class Test Examination 2016**

**Full Marks:50**

**Time –2hrs**

**Answer question 1 and any four from the rest of the following :**

1. Answer any five from the following 2 × 5
- a) Define metamerism and pseudometamerism.
  - b) Write two important differences between Protozoa and Metazoa.
  - c) What is Cis-trans test?
  - d) Write two basic characters of class Cephalopoda with example.
  - e) Write the full form of TDF and SRY.
  - f) What do you mean by Tm?
  - g) What is rhabdite? What is its function?
  - h) Give example of barrier reef and fringing reef.
  - i) What do you mean by liposome?
2. a) Elucidate the regulatory cascade system of sex determination in human. 5
- b) Describe the role of bones and muscles in biting mechanism of poisonous snakes. 5
3. a) Explain the "Signal Sequence Hypothesis" 5
- b) Give difference between Gastropoda and Bivalvia. Write three salient features of phylum Echinodermata. 2+3
4. a) State Chargaff's Rule. Write difference between DNA and RNA. 4+1
- b) Schematically classify the phylum Platyhelminthes with examples. 5
5. a) What are the different types of canal systems found in phylum Porifera? Write an example of class Mesozoa found in India. 3+2
- b) Write down two modifications of polyp found in Cnidaria
- i) What do you mean by Fluid Mosaic Model Of Plasma Membrane? 2 +3
6. a) Give two characters of phylum Apicomplexa & phylum Sarcomastigophora with two Examples. 4

- b) Write Down the full form of FRAP. 1
- c) Differentiate between protostomia & deuterostomia. Give examples. 1+1
- d) Define pseudocoelomates. Give two examples of pseudocoelomates 1+2
- 7 a) Differentiate between Powder Down feather & Nestling Down feather with examples s 2+2
- b) Draw & label the different parts of a typical feather in pigeon. 3+2
- c) Give one example of one Hydrozoa or Cubozoa. 1