

2018

ZOOLOGY – HONOURS

Paper : CC-1

Full Marks : 50

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

1. Answer **any five** questions from the following : 2×5
- (a) Define holotype.
  - (b) What do you mean by biradial symmetry? Give example.
  - (c) What is colloblast? Where do you find this?
  - (d) What is the difference between the pre-patent period and incubation period?
  - (e) Compare pinacocytes and choanocytes.
  - (f) Write the scientific name of Portuguese-man-of-war and the phylum of this organism.
  - (g) What do you mean by biological vector? Give example.
  - (h) Mention the differences between nematocyst and tentaculocyst.
2. Write short notes on **any two** of the following : 5×2
- (a) Principle of priority in taxonomy.
  - (b) Parasitic adaptations of *Fasciola hepatica*.
  - (c) Physical parameters of coral reef formation and the role of zooxanthalles in this process.
  - (d) Evolutionary significance of body symmetry in animals.
3. Answer **any three** of the following :
- (a) (i) What do you mean by “Binomial Nomenclature”?  
(ii) Comment on International Code of Nomenclature.  
(iii) Explain three kingdom concept of classification. 2+4+4
  - (b) (i) Describe briefly the molecular mechanism of flagellar movements in *Euglena* sp.  
(ii) Give a brief account of life cycle of *Wuchereria bancrofti* with suitable illustration.  
(iii) Add a note on the periodicity of microfilaria of *Wuchereria bancrofti*. 3+5+2

**Please Turn Over**

- (c) (i) Classify Phylum : Porifera (up to class) with diagnostic characters and proper example.  
(ii) What is Loeffler's syndrome?  
(iii) How do you identify the fertilized eggs of *Ascaris lumbricoides* ? 6+2+2
- (d) (i) Discuss polymorphic polypoid forms of siphonophora with suitable diagrams and examples.  
(ii) What do you mean by mealy pork and cysticercosis? 6+(2+2)
- (e) (i) Describe the most complex type of canal system in Porifera with necessary diagram.  
(ii) Describe trophozoite stage of *Entamoeba histolytica* with proper diagram.  
(iii) Distinguish between micro and macro gametocytes of *Plasmodium vivax*. 4+4+2
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