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F – 4027

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, January 2019
First Degree Programme under CBCSS
ZOOLOGY
Core Course – II
ZO 1341 : ANIMAL DIVERSITY – I
(2013 Admission)

Time : 3 Hours

Max. Marks : 80

Instruction : Draw diagrams wherever necessary.

- I. Answer **all** questions in **one** or **two** sentences (**Each** question carries **one** mark).
- 1) What is contractile vacuole ? Mention its function.
 - 2) What is the habitat of *Opalina* ?
 - 3) Name the causative agent of African sleeping sickness.
 - 4) What is venus flower basket ?
 - 5) Comment on cnidoblast.
 - 6) What is measly pork ?
 - 7) Mention the Phylum and class of Dentalium.
 - 8) What is Pedicellaria ?
 - 9) Name an arthropod living fossil.
 - 10) What is beepasturage ? **(10×1=10 Marks)**
- II. Answer **any eight** of the following (**Each** question carries **two** marks).
- 11) Distinguish between Protostomes and Deuterostomes.
 - 12) What are gemmules ?
 - 13) What is metagenesis ? Give an example.
 - 14) What is sexual dimorphism ? Explain with an example.
 - 15) Mention the parasitic adaptations of *Hirudinaria*.

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- 16) Sketch and label the Nauplius larva of *Penaeus*.
- 17) What is parasitic castration ?
- 18) Describe the structure and function of Osphradium.
- 19) Write the scientific name of two coconut pests.
- 20) Comment on Aristotle's lantern.
- 21) What is vermiculture ?
- 22) Distinguish between *Apis dorsata* and *Apis indica*.

(8×2=16 Marks)

III. Answer **any six** of the following. **Each** question carries **four** marks.

- 23) Write notes on five kingdom classification.
- 24) What is Heteronereis ? Mention the peculiarities.
- 25) Explain briefly the lifecycle and pathogenicity of *Wuchereria*.
- 26) Write an account on sericulture.
- 27) Explain the evolutionary significance of *Peripatus*.
- 28) Write notes on coral reefs and their significance.
- 29) Explain the parasitic adaptation of Liver fluke.
- 30) Explain polymorphism with reference to *Physalia*.
- 31) With suitable diagram, explain the nervous system of *Penaeus*.

(6×4=24 Marks)

IV. Answer **any two** of the following.

- 32) Explain the life cycle of *Plasmodium vivax*.
- 33) With neat labelled diagrams describe the structure of cephalothoracic appendages of *Penaeus*.
- 34) Write an essay on pearl culture and add notes on economic importance of molluscs.
- 35) Classify phylum Echinodermata up to classes, with general characters and examples.

(2×15=30 Marks)
