

(4)

7. Write short notes on following: $2\frac{1}{2} \times 3 = 7\frac{1}{2}$

efrcveeueeKele hej me#ehle eShheCeUeeB eueeKeUes

(i) Alternation of Generation

heek(er SkeaeVlej Ce

(ii) Coral reefs and their significance

DeJeeue e#eebeUeeb SJe# Gvekeae cenIJe

(iii) Locomotion in Hydra.

neF[ê ceWieceve

Unit-IV

FkeaeF&I V

8. Give an account of various larval stages in life cycle of Fasciola. $7\frac{1}{2}$

heaeMeDeesuee kea peeeve Ueeâ kea e#ee#eVe ueeJee&DeJemLeeDeell/keae e#eJejCe oeepeS-

9. Write notes on following:

efrcveeueeKele hej eShheCeer eueKeW:

(i) Important characters of Phylum Platyhelminthes

melle huensensueeevLeepe kea Dece#e ue#eCe

(ii) Mode of infection, Pathogenicity and therapy of Taenia

Šee#eUee keae mebaeCe e#eeDe, jeepevelee Je e#eekealmee

(iii) Filaria warm.

heaeFueej Uee keaeCe-

A

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B.Sc. (Part-I) Examination, 2015

(Regular & Exempted)

ZOOLOGY

First Paper

Nonchordata-I (Protozoa to Helminthes)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No.

1 is compulsory. Attempt one question from each Unit. Illustrate your answers with suitable diagrams.

kegue hee#e DeMveell/keâ Goej oeepeS- DeMve me# 1 Deae#eeUee&nr# DeUeekeâ FkeaeF&mes Skeâ DeMve keae#peS- GheUeeâ e#e#eeWÉej e Deheves Goej e#Wkeaes mebe#e#e keae#peS-

1. (a) Describe briefly the following: $2 \times 5 = 10$

efrcveeueeKele keae me#ehle JeCelle keae#peS:

(i) Excretory organ of Ascaris

iessuekeaeCe keae GImepette Dehe

(ii) Nematocyst

o#Mekeaes#Mekeae

(2)

(iii) Flame cells

Flame cells are found in flatworms.

(iv) Noctiluca

Noctiluca is a bioluminescent dinoflagellate.

(v) Gemmule

Gemmules are resting stages of planarians.

(b) Differentiate between the following:

Compare the following: $2 \times 5 = 10$

(i) Schizogony and Sporogony

Schizogony is a type of asexual reproduction in ciliates.

(ii) Gonads of Obelia and Aurelia

Gonads in Obelia are specialized for asexual reproduction.

(iii) Planula and Parenchymula

Planula is a larval stage of many invertebrates.

(iv) Male and Female Ascaris

Male and female Ascaris differ in their genitalia.

(v) Uterus of Mature and Gravid Proglottid of Taenia

The uterus of a mature proglottid contains eggs, while the gravid proglottid contains fully developed scolices.

Unit-I

Page 1

2. Describe the life cycle of Monocystis. $7 \frac{1}{2}$

Monocystis is a ciliate that has a complex life cycle involving both asexual and sexual stages.

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(3)

3. Give an account of and mode of feeding of Paramecium. $7 \frac{1}{2}$

Paramecium is a unicellular ciliate that feeds by filter-feeding.

Unit-II

Page 1

4. Give an account of Cellular organization of Sponge. $7 \frac{1}{2}$

Sponges are multicellular animals with a specialized cellular organization.

5. Classify the following and mention their salient features: $2 \frac{1}{2} \times 3 = 7 \frac{1}{2}$

Classify the following organisms and mention their salient features.

(i) Euplactella

Euplactella is a genus of sponges.

(ii) Spongilla

Spongilla is a genus of sponges.

(iii) Euspongia

Euspongia is a genus of sponges.

Unit-III

Page 1

6. Give a Comparative account of Medusa of Obelia and Aurelia. $7 \frac{1}{2}$

Compare the medusae of Obelia and Aurelia in terms of their structure and reproduction.

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P.T.O.