

Shikshan Mandal, Karad's
Mahila Mahavidyalaya, Karad
B.Sc.(Part –I)(Preliminary-I) Examination
DSC-15A-ZOOLOGY-I (CBCS)
(Animal Diversity-I)

Date: 09/01/2023 Day: Monday

Time: 1:00pm to 3:00pm

Total Marks: 40

Instruction:

1. All questions are compulsory.
2. Figures to the right indicate full marks.

Q.1 Choose the correct alternative.

(8)

a) Locomotion in Amoeba is achieved by -----

- | | |
|-----------------|---------------------------|
| i) Flagellum | ii) cilia |
| ii) Pseudopodia | iv) Cilia and pseudopodia |

b) One of the following is a flagellated protist -----

- | | |
|--------------|----------------|
| i) Euglena | ii) Paramecium |
| iii) Giardia | iv) Amoeba |

c) Through osculum -----

- | | |
|-------------------------------|---------------------------|
| i) O ₂ is taken in | ii) Food is taken in |
| iii) Water is given out | iv) Sperms enter the body |

d) Jellyfish belongs to class -----

- | | |
|----------------|--------------|
| i) pisces | ii) Hydrozoa |
| iii) Scyphozoa | iv) Anthozoa |

e) The primary host of *T. solium* is -----

- | | |
|----------|---------|
| i) Pig | ii) Bat |
| iii) Man | iv) Cat |

f) Carabids belong to a class -----

- | | |
|--------------|----------------|
| i) Arachnida | ii) Crustacea |
| iii) Insecta | iv) Gastropoda |

g) The meaning of the word mollis is ----

- i) Hard
- ii) Soft
- iii) Segmented
- iv) Carapace.

h) Class ---- belong to phylum annelida

- i) Hirudinea
- ii) Crustacea
- iii) Insecta
- iv) Gastropoda

Q2. Attempt any two of the following. (16)

- a) Give general characters of kindom protista.
- b) Describe life cycle of T. solium
- c) Describe canal syetem in sycon and state it significance.

Q3. Attempt any four of the following. (16)

- a) Vision in Insecta.
- b) Effect and Significance of Torsion.
- c) Water vascular system in sea star.
- d) Life cycle of ascaris.
- e) General Characteristics of Arthropoda.
- f) Explain Metamorphosis in insect.

Shikshan Mandal, Karad's
Mahila Mahavidyalaya, Karad
B.Sc.(Part -I)(Preliminary-I) Examination
DSC-16A-ZOOLOGY-II (CBCS)
(Cell Biology and Evolutionary Biology)

Date:10/01/2023 Day:Tuesday

Time:1:00 pm to 3:00 pm

Total Marks:40

Instruction:

1. All questions are compulsory
2. Figures to the right indicate full marks.

Q.1 Choose the correct alternative. (8)

- a) The number of chromosomes in man is -----
i) 48 ii) 47 iii) 46 iv) 60
- b) The ----- are called the power house of cell.
i) Lysosomes ii) Ribosomes
iii) Golgi complex iv) mitochondria
- c) Fossilized foot print are the type of ----
i) Moulds ii) petrification
iii) Casts iv) ichnofossils.
- d) Vishnu rock is the name given to a rock layer, which is found in -----
i) Badrikedar ii) Gangotri
iii) Grand Canyon (U.S.A.) iv) Kailas
- e) Nuclear membrane is made of ---- membrane.
i) 1 ii) 2 iii) 3 iv) 4
- f) The ----- is the heart of the cell.
i) mitochondria ii) Golgi complex
iii) Nucleus iv) ribosomes.
- g) ---- are 'v' shaped chromosomes having two nearly equally arms.
i) Submetacentric ii) metacentric
iii) Acrocentric iv) Telocentric

h) The plant *O. lamarckiana* was studied by ----

- i) Lamarck
- ii) Mendel
- iii) Darwin
- iv) Devries.

2. Attempt any two of the following. (16)

- a) Describe cell structure with suitable diagram.
- b) Describe structure and function of mitochondria.
- c) Describe theory of natural selection.

3. Attempt any four of the following. (16)

- a) Cast and Mould.
- b) Petrification.
- c) Endoplasmic reticulum
- d) Genetic drift and gene pool
- e) list of five major extinctions.
- f) Describe fluid mosaic model of plasma membrane.