



HDQ-003-0011013

Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

November / December – 2017

Z-01 : Zoology

Faculty Code : 003

Subject Code : 0011013

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) Draw neat and labeled diagram wherever necessary.
(2) Figures to the right side indicate full marks for the question.

UNIT - 1

- 1 (a) Objective type question : 4
- (1) Arcella belongs to which phylum?
 - (2) The earthworm move with the help of _____
 - (3) The outermost layer of intestine is _____
 - (4) Flamingo city is situated in _____ sanctuary.
- (b) Answer in brief (any **one** out of two) 2
- (1) Classify Tapeworm.
 - (2) Describe: Hormone of pancrease.
- (c) Answer in detail : (any **one** out of two) 3
- (1) Describe general characters of Arthropoda.
 - (2) Draw a diagram of Nervous system of earthworm.
- (d) Answer in detail : (any **one** out of two) 5
- (1) Draw a chart of nonchordate classification with example.
 - (2) Explain marine ecosystem.

UNIT - 2

- 2 (a) Objective type questions : 4
- (1) Closed type circulatory system is characteristics of phylum _____
 - (2) Deficiency of which hormone causes hypoglycemia?
 - (3) Earthworm bears _____ Segments.
 - (4) Define the term wildlife.
- (b) Answer in Brief : (any **one** out of two) 2
- (1) Classify with reason: Peripatus
 - (2) Describe : Culex female mouth part (With Diagram)
- (c) Answer in detail : (any **one** out of two) 3
- (1) Cysticercus larva
 - (2) Describe : Hook and line
- (d) Answer in detail : (any **one** out of two) 5
- (1) Explain : Desert adaptation
 - (2) Explain : Histology of Intestine.

UNIT - 3

- 3 (a) Objective type questions : 4
- (1) Write any two name of the sanctuaries.
 - (2) Citellar region of pheretima posthuma are _____
 - (3) Connecting link between invertebrate and vertebrate is _____
 - (4) Give only two name of abiotic factors.
- (b) Answer in Brief : (any **one** out of two) 2
- (1) Define Placoid Scale
 - (2) Function of mitochondria.
- (c) Answer in detail : (any **one** out of two) 3
- (1) Describe : Flora and Fauna of Gir national park.
 - (2) Describe : fluid mosaic model of plasma membrane.

- (d) Answer in detail : (any **one** out of two) 5
- (1) Explain : Marine national park
 - (2) Explain : Digestive system of earthworm.

UNIT - 4

- 4 (a) Objective type questions : 4
- (1) Polymorphism characteristics of phylum _____
 - (2) How many ovary are present in the earthworm?
 - (3) Nucleolus is composed of which substance?
 - (4) Give the name of Fishing Crafts.
- (b) Answer in Brief : (Any **one** out of two) 2
- (1) Draw a diagram of mature proglottid.
 - (2) Systematic position of Aphrodite.
- (c) Answer in detail : (any **one** out of two) 3
- (1) General characters of Porifera with class.
 - (2) Scolex of taenia solium with diagram.
- (d) Answer in detail : (any **one** out of two) 5
- (1) Describe the Culex and Anopheles larva.
 - (2) Describe the Marine national park.

UNIT - 5

- 5 (a) Objective type questions : 4
- (1) Define : Producer in ecosystem
 - (2) Definition : National park
 - (3) Give the thickness of nuclear membrane.
 - (4) Classification of Liver fluke.
- (b) Answer in brief : (any **one** out of two) 2
- (1) Function of plasma membrane?
 - (2) Define only type: Scansorial adaptation.

- (c) Answer in detail : (any one out of two) **3**
- (1) Describe: Location and area of Khijadia bird sanctuary
 - (2) Describe: Excretory system of earthworm.
- (d) Answer in detail : (any **one** out of two) **5**
- (1) Describe Histology of liver.
 - (2) Difference between Condrichthyes and Osteichthyes
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