

Q.P. Code – 42147

First Semester B.Sc. Degree Examination, October/November 2019

(CBCS New Scheme 2017 onwards)

Zoology

Paper I — ANIMAL DIVERSITY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labelled diagrams wherever necessary.

PART – A

I. Answer any **TEN** of the following :

(10 × 2 = 20)

1. Name the locomotory organelles in Protozoa.
2. Mention the characters of class Calcarea.
3. What are Choanocytes? Mention its function.
4. What is the difference between a polyp and medusa?
5. List the characters of cestoda.
6. Mention the different types of Proglottids in Taenia solium.
7. Write the characters of cephalopoda.
8. What is Retrogressive metamorphosis? Give an example.
9. Sketch and label the diagram of Ascidia.
10. Mention two examples of Agnatha.
11. What are claspers?
12. Write a note on cutaneous respiration in Frog.

PART – B

II. Answer any **SIX** of the following :

(6 × 5 = 30)

13. Describe Ciliary mode of locomotion in protozoa.
14. Explain polymorphism in Halistemma.

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15. Write a note on parasitic adaptations in *Ascaris lumbricoides*.
16. Draw a neat labelled diagram of compound eye in *Palaemon*.
17. Explain pearl culture.
18. Describe the water vascular system in *Asterias*.
19. Describe externals of frog.
20. List the interesting features of primates.

PART - C

III. Answer any **FOUR** of the following :

(4 × 10 = 10)

21. List the general characters of phylum Annelida and classify up to classes with suitable examples.
 22. Explain metamorphosis in Insects.
 23. Write notes on chondrichthyes and osteichthyes.
 24. Enumerate the general characters of class Reptilia and classify up to living orders with suitable examples.
 25. Describe morphological and Anatomical flight adaptations in birds.
 26. Write the salient features of Prototheria and Metatheria.
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First Semester B.Sc. Degree Examination, November 2017

(CBCS – New Scheme – 2017 onwards)

Zoology

Paper I – ANIMAL DIVERSITY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labelled diagrams wherever necessary.

I. Answer any **TEN** of the following:

(10 × 2 = 20)

1. Write any two locomotory organelles in protozoa.
2. Mention the parts of canal system in sycon.
3. What is polymorphism? Give an example.
4. List out the characteristic features of bladder worm.
5. Mention any four classes of phylum Arthropoda with examples.
6. Mention any four general characters of phylum Mollusca.
7. Write a note on Tube feet.
8. What is venous heart?
9. Mention the characters of Dipnoi. Give an example.
10. What is Bucco – pharyngeal respiration?
11. Write a note on pygostyle.
12. Write the interesting features of cetacea. Give an example.

II. Answer any **SIX** of the following:

(6 × 5 = 30)

13. Briefly explain amoeboid movement.
14. Explain sexual dimorphism in *Ascaris lumbricoides*.
15. Write a note on pearl culture.

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16. Explain the structure of simple eye in scorpion with labelled diagram.
17. List the characters of Agnatha.
18. Explain Retrogressive metamorphosis in Ascidia.
19. List the characters of carinatae.
20. Write the interesting features of proboscidea.

III. Answer any **FOUR** of the following:

(4 × 10 = 40)

21. Mention the general characters of phylum coelenterata and classify up to classes with examples.
 22. Enumerate the general characters of phylum Annelida and classify up to classes with suitable examples.
 23. Explain the water vascular system in Asterias.
 24. Explain the externals of shark with a neat labelled diagram.
 25. Write the general characters of class Reptilia up to living orders.
 26. Write the general characters of Prototheria and Metatheria with examples.
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I Semester B.Sc. Examination, Nov./Dec. 2016
(Semester Scheme) (CBCS)
ZOOLOGY
Paper – I : Animal Diversity

Time : 3 Hours

Max. Marks : 90

Instruction : Draw *neat* labelled diagrams *wherever* necessary.

I. Answer **any ten** of the following :

(2×10=20)

- 1) Mention any two classes of the phylum protozoa with suitable examples.
- 2) Mention the functions of canal system in sycon.
- 3) Mention different zooids in obelia.
- 4) Name the hosts in the life history of Taenia solium.
- 5) What is metamerism ? Add a note on its significance.
- 6) Define torsion.
- 7) Write a note on stone canal.
- 8) Mention the phylogenetic significance of protochordates.
- 9) Write any four general characters of Agnatha.
- 10) Define osmo-regulation.
- 11) Give an account of parental care in Alytes.
- 12) Mention key to identify non-poisonous snakes.

II. Answer **any six** of the following :

(6×5=30)

- 13) Mention different locomotor organelles in protozoa. Describe any one of them.
- 14) List out general characters of nematodes. Give examples.
- 15) Draw a neat labelled diagram of compound eye of palaemon.
- 16) Classify the phylum Mollusca upto classes with suitable examples.
- 17) Draw a neat labelled diagram of water vascular system in asterias.
- 18) Describe biting mechanism in snakes.
- 19) Write a note on Ratitae.
- 20) List out interesting features of prototheria.

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III. Answer **any four** of the following :

(4×10=40)

- 21) Explain life history of ascaris lumbricoides.
- 22) Enumerate the general characters of the phylum Arthropoda. Classify upto classes with suitable examples.
- 23) Listout the general characters of the phylum Echinodermata. Classify upto classes with suitable examples.
- 24) Bringout the general characters of class Amphibia and classification upto orders with examples.
- 25) Explain flight adaptations in Birds.
- 26) Enumerate the general characters of class Mammalia and classify upto living orders.

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First Semester B.Sc. Degree Examination, November 2017

(CBCS – Old Scheme – 2016-17)

Zoology

Paper I – ANIMAL DIVERSITY

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Draw neat labelled diagrams wherever necessary.

I. Answer any **TEN** of the following:

(10 × 2 = 20)

1. Mention the locomotors organelles in protozoa.
2. Write notes on Gemmule.
3. What is polymorphism?
4. List the differences between male and female Ascaris.
5. Define the term cephalization.
6. Explain the term open type of circulatory system.
7. Mention any four classes of phylum Echinodermata.
8. List the characters of protochordata with examples.
9. Mention the characters of Hag fishes.
10. Write a note on claspers.
11. Give an account of parental care in Ichthyophis.
12. Sketch and label poison apparatus in snakes.

II. Answer any **SIX** of the following:

(6 × 5 = 30)

13. Explain Flagellar movement in Euglena.
14. Mention the general characters of phylum porifera.
15. Explain parasitic adaptations in Ascaris lumbricoids.

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16. List the general characters of phylum Mollusca.
17. Explain the osmoregulation in fresh water Teleost fishes.
18. Mention the general characters of class Amphibia.
19. List out the Morphological flight adaptations in Birds.
20. Mention the Interesting features of Metatheria.

III. Answer any **FOUR** of the following:

(4 × 10 = 40)

21. Explain the life history of Taeniasolium.
 22. Enumerate the general characters of phylum Arthropoda with example to each class.
 23. With labelled diagram, explain the structure of water vascular system in Asterias.
 24. List out the general characters of Reptiles. Mention any four living orders with examples.
 25. List out the differences between Ratitae and Carinatae.
 26. Mention the general characters of class Mammalia. Write any four living orders with examples.
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First Semester B.Sc. Degree Examination, November 2017

(Semester Scheme)

Zoology

NON-CHORDATA (Part-I)

Time : 3 Hours]

[Max. Marks : 60

Instructions to Candidates : Draw labelled diagrams wherever necessary.

PART – A

I. Answer any **FIVE** of the following:

(5 × 3 = 15)

1. What is Halophytic nutrition? Give an example.
2. Write a note on Foraminiferan Ooze.
3. Explain Ascon type of canal system.
4. Briefly explain the Gastrea theory of Origin of Metazoa.
5. List the affinities of ctenophore with platyhelminthes.
6. Mention the occurrence, disease caused and mode of transmission of Entamoeba histolytica.
7. List the parasitic adaptations of Leech.

PART – B

II. Answer any **FIVE** of the following:

(5 × 5 = 25)

8. Write a note on amoeboid movement in Amoeba.
9. Explain the structure of Gemmule.
10. Write a note on polymorphism in Helistemma.
11. Give an account of Child's Axial gradient theory.
12. List the general characters of Nematoda.
13. Describe reproductive system of Leech.
14. Mention the parasitic adaptations of flat worms.

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PART - C

III. Answer any **TWO** of the following:

(2 × 10 = 20)

15. Enumerate the general characters of phylum protozoa, classify up to classes with suitable examples.
 16. Explain the skeleton in Sponges.
 17. Describe the life history of Aurelia.
 18. List the general characters of phylum Annelida, classify up to classes with suitable examples.
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I Semester B.Sc. Examination, November/December 2016
(Semester Scheme)

ZOOLOGY

Non-Chordata : (Part – I)

Time : 3 Hours

Max. Marks : 60

Instruction : Draw labelled diagrams *wherever* necessary.

PART – A

I. Answer **any five** of the following.

(5×3= 15)

- 1) What is autotrophic nutrition ? Give an example.
- 2) Write a note on Radiolarian ooze.
- 3) Briefly explain Rhaganoid type of canal system in sponges.
- 4) Write notes on Flagellate theory of origin of Mesozoa.
- 5) Classify the phylum Coelenterata upto classes with suitable example.
- 6) List the physiological parasitic adaptations in flatworms.
- 7) Mention the occurrence, disease caused and mode of transmission of Fasciola hepatica.

PART – B

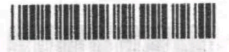
II. Answer **any five** of the following.

(5×5= 25)

- 1) Describe the flagellar movement in Euglena.
- 2) Write a note on Spicules of Sponges.
- 3) List the economic importance of corals.
- 4) Write a note on regeneration in Planaria.
- 5) Give a brief account of soil Nematodes.
- 6) Briefly explain the structure of Trochophore larva.
- 7) Mention the morphological adaptations in Leech.

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PART - C

III. Answer any two of the following.

(2×10= 20)

- 1) Describe conjugation in Paramecium and mention its significance.
- 2) Enumerate the general characters of phylum Porifera, classify upto classes with suitable examples.
- 3) Describe the structure of Aurelia.
- 4) Write a note on the following :
 - a) Role of Earthworm in soil fertility
 - b) Significance of Metamerism and Coelom in Annelida.