

# QUESTIONS BANK

## B.Sc. Ist year

### PAPER-IST LIFE AND DIVERSITY OF INVERTEBRATES

#### SHORT-ANSWER TYPE QUESTIONS:

1. Describe the structure of plasmodium vivax.
2. Give an account of various kinds of cell of sycon.
3. Difference between polyp and medusa.
4. Write brief account in parasitism.
5. Write short note on any social insects.
6. Give a note on pearl formation.
7. Describe external morphology of Balanoglossus.
8. Conjugation in paramecium.
9. Gremmules.
10. Coral reefs.
11. Metacercaria.
12. Trochophore larva
13. Osphardium
14. Statocyst.
15. Choanocyte
16. Torsoin

17. Redula
18. Metagenesis
19. Cercaria larva
20. Bipinnaria larva
21. Compound eyes
22. Hastate plate
23. Proboscis complex
24. Parapodia of hetero neries
25. Green gland
26. Sycon type canal system
27. Tube feed
28. Glochidium larva
29. Mentle cavity of pila
30. Hetero neries
31. Aristole lantern
32. Uropod of prawn
33. Spongocoel cavity
34. Water vascular system in star fish
35. Feeding mechanism of paramecium

## LONG-ANSWER TYPE QUESTIONS

1. Describe the process of conjugation in paramecium and discuss its significance.
2. Give a detail of the life cycle of Fasciola Hepatica.
3. Describe digestive system of prawn.
4. Give an account of respiratory system of pila.
5. What is metagenesis? Explain it in the life cycle of obelia.
6. Give an account of structure and function of compound eyes of chockroach.
7. Classify phylum porifera upto classes giving important characters and examples.
8. Describe in detail the structure and function of cephalothoracic appendages of prawn.
9. What is alteranation of generation? Describe it in Obelia.
10. Describe the differences between neries and hetero neries.

# QUESTIONS BANK

## B.Sc. 1st year

### PAPER-IIInd LIFE AND DIVERSITY OF VERTEBRATES

#### SHORT-ANSWER TYPE QUESTIONS:

1. Pharyngeal wall in herdmania.
2. Axolotal larva
3. Placoid scale
4. Gonoid scale
5. Poisonous and non-poisonous snakes (only 3 characters)
6. Gonads of branchiostoma
7. Parental care in amphebia
8. Endostyle
9. Scroll value or spiral value
10. Gizzard
11. V.S. of fish (only labeled diagram)
12. Typical feathers
13. Ammocoete larva
14. Coral hood
15. Lungs fishes

16. Neural complex
17. Dentition in mammals
18. Flight muscles of pigeon
19. Petromyzon
20. Hatscheck in nephridium
21. Spicules of herdmania
22. Jacobson organ
23. Hetero cercal and homo cercal tail
24. Peking man
25. Deciduous placenta
26. Wheel organ
27. Metanephric kidney
28. Venous heart
29. Snake venom
30. Homodont and heterodont dentition
31. Dipneic fish
32. Neoteny
33. Perching mechanism
34. Biting apparatus of poisonous snake
35. Dorsal tubercle

## **LONG ANSWER TYPE QUESTIONS**

1. Classify and describe the structure of petromyzon and compare it with myxine .
2. Write an essay on bird migration .
3. Write an essay on scales and fins of fishes .
4. Give an account of general characters of class reptilia, classify it up to orders with suitable example.
5. Describe the structure of uromastix heart and its circulating of blood.
6. What is urogenital system describe its detail in scoliodon.
7. Describe the respiratory organs and respiration of “pigeon”?
8. Give an account of retrogressive metamorphosis in “hardmania”.
9. Classify reptiles, characterstics features and suitable examples of each group?
10. Describe the structure of mammalian skin and its function.

11. What is venous heart illustrate account of afferent and efferent vasscls of scoliodon .
12. Write an essay on poison apparatus and poison of snakes?
13. Write the detail view regarding origion of chordate.
14. Write an essay on human evolution.
15. Describe the blood vascular system of hardmania.
16. Give an account of general characters of class amphibia, classify it up to orders with suitable example.

# QUESTIONS BANK

## B.Sc. Ist year

### PAPER-IIIrd CYTOLOGY AND DEVELOPMENTAL BIOLOGY

#### SHORT-ANSWER TYPE QUESTIONS:

1. Electron microscope
2. Staining technique
3. Importance of E.R.
4. Nuclear membrane
5. Sertoli cells
6. Post fertilization events
7. Gastrulation in chick
8. Determinate cleavage
9. Regeneration
10. Polytene chromosome
11. Types of cleavage
12. Fat map
13. Types of eggs
14. Ribosomes
15. Structure of sperm
16. Fertilization



17. Hen's egg
18. Area opaca and area pellucida
19. Cellular totipotency
20. Unit membrane of plasma membrane
21. Nucleiod
22. Balbiani ring
23. Gametogenesis
24. Cross fertilization
25. Blastulation
26. Extra embryonic membrane
27. Process of meiosis
28. Cell cycle
29. Cell transformation
30. Golgi body
31. Natural immunity
32. Difference between D.N.A. and R.N.A.
33. Lysosome
34. tRNA
35. plasma membrane
36. oncogenes
37. nucleosome

- 38. structure ovum
- 39. primitive streak

### **LONG ANSWER TYPE QUESTIONS**

1. Describe the structure and function of golgi bodies .
2. Write a note on Oogenesis in detail .
3. Describe the blastulation and fat map construction in frog.
4. Describe the process of Gastrulation in frog .
5. Describe structure and function of lysosomes.
6. Write a note on spermatogenesis.
7. What do you mean by cancer. Discuss various measures  
to prevent this disease.
8. What is gametogenesis? Describe Oogenesis in detail.

9. What do you mean by Fertilization?

Discuss the process of fertilization in detail.

11. Write an essay on the types and function of placenta in mammals.

12. Describe cell mediated immunity. What is immunity? Describe in detail.

13. What are carcinogenous? List few carcinogenous with target tissues.

14. Describe meiosis in detail.

15. Describe mitosis in detail.

# QUESTION BANK

**B.Sc. IIIrd Year**

## **Paper Ist- APPLIED ZOOLOGY**

### **SHORT-ANSWER TYPE QUESTION**

1. Silk gland and Silk
2. Tasar Silk
3. Hive Formation
4. Different types of Ponds for Fish Culture
5. Net used in Fishing
6. Types of Aquarium
7. Names of Indigenous and Exotic fishes
8. Cocoon (Silkworm)
9. Economic importance of Lac or Shell Lac
10. Induced Breeding
11. Median lethal dose
12. By-product of fish
13. Name of species of Silkworm found in India
14. Importance of Apiculture
15. Honey Dew
16. Life cycle of Lac Insect
17. Aquaculture
18. Mulberry Silkworm

19. Uses of Lac
20. Important Indian breeds of poultry
21. Diseases of Poultry
22. Social organization of Honey-Bee
23. Liver Oil of Fish
24. Metallic toxic agents
25. Different method of Fishing

### **LONG-ANSWER TYPE QUESTION**

1. What do you mean by 'Apiculture'?
2. Write an essay on Lac Culture.
3. Give an account of five edible fishes?
4. Describes various types of ponds used in fish farming. Explain the necessity of fish industry in India.
5. Write an essay on sericulture.
6. what do you understand by "Induced Breeding"? discuss its significance in fishery.
7. Give an account of Lac Culture.
8. describe in detail by-products of fish.
9. describe the snake venom, Scorpion and bee-poisoning.
10. Differentiate between Aquaculture and Pisciculture. Give a detailed account of Aquaculture.

# QUESTION BANK

B.Sc. IIIrd Year

## Paper IInd- ECOLOGY AND ENVIRONMENT

### SHORT-ANSWER TYPE QUESTION

1. Photoperiodism
2. Phosphorous Cycle
3. Agroforestry
4. Desert Ecosystem
5. Predation
6. Pyramid of Biomass
7. Acid Rain
8. Deforestation
9. Community
10. Food Chain
11. Wild life Sanctuary
12. Natural Ecosystem
13. Consumer
14. Productivity of an ecosystem
15. Forest Ecosystem
16. Biogas
17. Industrial waste pollutants

18. Green House Effect
19. Source of nuclear wastes
20. Energy flow in a ecosystem
21. Chipko Movement
22. Types of Pyramid
23. Commensalism
24. Nitrogen Cycle
25. Pollution
26. Conservation of resources
27. Mutalism
28. Soil Profile
29. Population
30. Food Web
31. Aerosol
32. Ecotone
33. Artificial Ecosystem
34. Eutrofication
35. Competition

### **LONG-ANSWER TYPE QUESTIONS**

1. Describe morphological adaptation in animals due to effect of light.
2. Write an essay on Soil Conservation.
3. what is water pollution? Write about its sources and effects.

4. write an essay on ecology in relation to climate in India.
5. Describe biochemical cycle with reference to Carbon and Phosphorous cycle.
6. What do you understand by environment? Describe physical and chemical factors of environment.
7. Discuss Green House Effect in Detail.
8. describe sources of natural resources and their conservation.
9. what is environmental pollution? Make a list of some Indian rivers with their major sources of pollution.



# **QUESTION BANK**

**B.Sc. IIIrd Year**

**Paper IIIrd- EVOLUTION AND MICROBIOLOGY**

## **SHORT-ANSWER TYPE QUESTION**

1. Aids
2. Spontaneous generation theory
3. Leprosy
4. Homology and Anology
5. Mutation Theory
6. Equus
7. Air-born bacterial disease
8. Connecting Link
9. Chemical evolution
10. Antibiotics
11. Fermentation
12. Cromagnon Man
13. Diptheria
14. Chemo therapy of Viral Disease
15. Endo Symbiosis
16. Kind of Fossils

17. Recapitulation theory
18. Biogenetic Law
19. Myxo bacteria
20. Mega Evolution
21. Vermiform appendix
22. Se Wall wright Effect
23. Dating of fossils
24. Syphilis

## **LONG-ANSWER TYPE QUESTIONS**

1. Describe Phylogeny of horse in detail.
2. Give an detailed account of Micro, Macro and Mega evolution with suitable examples.
3. Write an essay on Micro organism.
4. Explain modern theory of origin of life.
5. Write short notes on
  - (i) Typhoid
  - (ii) Cholera
  - (iii) Tetanus
  - (iv) Diphtheria
6. What are Microbes? Describe the Bergey's classification of Bacteria.
7. What are fossils? Explain the various theories of Fossilization with suitable examples.
8. Write an essay on Mutation.

9. Write an essay on Micro-organism.
10. Give an account of modern theory of Organic Evolution.
11. Write an essay on horses in Miocene.