

Ty BSC. 10/4/24

[Time: 03 Hours.]

[Marks: 100]

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory and carry equal marks.

2. Figures to the right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

4. Answer the questions in proper order.

Q. 1 Describe Any Two of the following: (20)

- General characteristics of Urochordata.
- Trace the origin of chordates to echinoderm ancestry.
- General characters of class Ostracodermii with example Cephalaspis

Q. 2 Explain Any Two of the following: (20)

- General characters of class amphibia with the suitable example
- Characters of Superclass Pisces with suitable example
- Characters of Tailed amphibian with suitable example

Q. 3 Give an account on Any Two of the following: (20)

- General characters of class Reptilia with the description of suitable example.
- Egg laying mammal and Primates
- General characters of class Aves with the description of Terrestrial bird

Q. 4 Describe Any Two of the following: (20)

- Habit, habitat and systematic position of Shark with reason.
- Respiratory system of Shark.
- Male Urinogenital system of Shark.

Q. 5 Write short notes on: (Any Four) (20)

- Amphioxus
- Class cyclostomata
- Hyla*
- Chamaeleon*
- Bradypus*
- Economic importance of Shark

T.Y BSC. 12/4/2024

[Time: 3 Hours]

[Marks: 100]

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory and carry equal marks.

2. Figures to the right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

4. Answer the questions in proper order.

- Q. 1 Describe Any Two of the following: (20)**
- Factors affecting enzyme activity.
 - Enzyme inhibition with reference to competitive inhibitor and its kinetics.
 - Classification of enzymes based on Enzyme Commission.
- Q. 2 Explain Any Two of the following: (20)**
- Acclimation and Acclimatization.
 - Osmotic and ionic regulation in hyperosmotic environment.
 - Aestivation and Hibernation.
- Q. 3 Give an account on Any Two of the following: (20)**
- Histological structure of Pancreas and its hormones.
 - Mechanisms of hormone action.
 - Histological structure and disorders of Adrenal gland.
- Q. 4 Describe Any Two of the following: (20)**
- Advantages and limitations of animal tissue culture
 - Media used for culture.
 - Basic principles of sterilization techniques.
- Q. 5 Write short notes on: (Any Four) (20)**
- Lactate dehydrogenase.
 - Circadian rhythm.
 - T.S. of Thyroid gland.
 - Importance of sterility in cell culture.
 - Role of kidney in ionic regulation.
 - Hormones of neurohypophysis.
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[Time: 3 Hours.]

[Marks: 100]

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory and carry equal marks.

2. Figures to the right indicate full marks.

3. Draw neat and labelled diagrams wherever necessary.

4. Answer the questions in proper order.

Q. 1 Describe Any Two of the following:

(20)

- a) Regulatory protein domain
- b) Excision repair of DNA
- c) Huntington disease

Q. 2 Describe any two of the following:

(20)

- a) cDNA library.
- b) Plasmid vector.
- c) Polymerase chain reaction.

Q. 3 Give an account on any two of the following:

(20)

- a) Non-disjunction of autosomes.
- b) Cystic fibrosis
- c) Breast cancer

Q. 4 Describe any two of the following:

(20)

- a) Biological databases
- b) UniProt
- c) FASTA

Q. 5 Write short notes on: (any four)

(20)

- a) Nonsense mutations
- b) DNA sequencing by chain termination method
- c) Amniocentesis
- d) PubMed
- e) Hydroxylating agent mediated mutation
- f) PROSITE

16/04/24 TYBSC-VI

Paper / Subject Code: 88666 / Zoology: Environmental Biology & Zoopharma

[Time: 03 Hours.]

[Marks: 100]

Please check whether you have got the right question paper.

- N.B: 1. All questions are compulsory and carry equal marks.
2. Figures to the right indicate full marks.
3. Draw neat and labelled diagrams wherever necessary.
4. Answer the questions in proper order.

- Q. 1 Describe Any Two of the following: (20)
a) Energy resources
b) Water (Prevention and Control of Pollution) Act, 1974.
c) Rainwater harvesting
- Q. 2 Explain Any Two of the following: (20)
a) Describe types of trees harvesting.
b) Techniques involved in wildlife census.
c) Describe types of habitat and territories.
- Q. 3 Give an account on Any Two of the following: (20)
a) Economic value of Bioprospecting
b) Methods of self-medication through geophagy
c) Applications of Zoopharmacognosy
- Q. 4 Describe Any Two of the following: (20)
a) Isolating mechanisms
b) Patterns of animal distribution
c) Zoogeography of Ethiopian realm
- Q. 5 Write short notes on: (Any Four) (20)
a) Solar energy.
b) e-waste management
c) Capture mark recapture method
d) Modern bioprospecting
e) Contribution of Zoopharmacognosy to human medicines
f) Fauna of Australian region

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