SUBJECT CODE: ZOO-1A

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU

I B.Sc. – I SEMESTER SUPPLEMENTARY EXAMINATION – OCTOBER 2017

ZOOLOGY PAPER I

BIOLOGY OF NON CHORDATES AND CELL BIOLOGY

For 2013-2016 Batch

Time: 3 hrs. Max.Marks: 50

PART – A

Long Answer Questions. Answer the following: 3x10=30M

Draw labeled diagrams wherever necessary.

1. a) Explain conjugation in Paramecium.

OR

b) Describe the Canal system in Sponges

2. a) Explain the phenomenon of Polymorphism in Coelenterata.

OR

b) Explain the digestive system of Leech.

3. a) Give an account of ultra structure of animal cell.

OR

b) Explain various stages involved in Mitosis.

PART – B

Write short notes on any FIVE of the following: 5x2=10M

4. Protozoa – general characters
5. Skeleton in Sponges
6. Obelia – Structure
7. Protonephridia of Fasciola
8. Coelorn in Annelida
9. Poly chaeta
10. Fluid Mosaic Model of Plasma Membrane.
11. Polytene Chromosomes.

PART –C

Answer the following in one or two sentences. 10x1=10M

12. Slipper animalcule
13. Sycon
14. Coral
15. Ascaris
16. Vermiculture
17. Testis Sacs
18. Ribosome
19. RER
20. Power House of the Cell
21. Cell Cycle.

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PAPER CODE: ZOO-1A

CH.S.D.ST.THERESA'S AUTONOMOUS COLLEGE FOR WOMEN:ELURU

I B.Sc. – I SEMESTER END EXAMINATION – OCTOBER 2016

ZOOLOGY PAPER I

ANIMAL DIVERSITY NON-CHORDATES

Time: 3 hrs. Max.Marks:50

PART-A

Long Answer Questions. Answer the following.

Draw labeled diagrams wherever necessary. 3x10=30M

1.a) Discuss the alternation of generations shown in the life cycle of Elphidium.

OR

b) Explain different types of Cells present in Sycon.

2.a) Classify phylum Cnidaria upto classes with suitable examples.

OR

b) Explain the processing of Vermiculture.

3.a) Give an account of the affinities of Peripatus.

OR

b) Describe water vascular system of Star fish.

PART-B

Write short notes on any FIVE of the following. 5x2=10M

Draw labeled diagrams wherever necessary.

4. Calcarea
5. Pneumatophore
6. Miracidium larva
7. Monostichodent Jaw
8. Statocyst
9. Cephalopoda
10. Enteropheusta
11. Nauplius larva

PART-C

Answer the following in one or two sentences. 10x1=10M

12. Schizocoelomata
13. Euplectella
14. Adradial tentacles
15. Atoll
16. Rhabdites
17. Pre testicular nephridia.
18. Green gland
19. Radula
20. Aristotle's lantern
21. Amphiblastula

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PAPER CODE:ZOO-2A

CH.S.D.ST.THERESA'S AUTONOMOUS COLLEGE FOR WOMEN:ELURU

II B.Sc. – III SEMESTER END EXAMINATION – OCTOBER 2016

ZOOLOGY PAPER III

CYTOLOGY, GENETICS AND EVOLUTION

Time: 3 hrs. Max.Marks:50

PART – A

Long Answer Questions. Answer the following.

Draw labeled diagrams wherever necessary. 3x10=30M

1 a) Describe ultra Microscopic structure of Eukaryotic cell with the help of diagram.

OR

b) Explain Polymorphism in Lysosomes. Add a note on its functions.

2. a) Define Allelic gene interaction. Explain it with any two examples.

OR

b) Formulate Mendel's Laws of inheritance with the help of suitable examples.

3. a) Explain "X" linked inheritance with any two examples.

OR

b) Define gradual speciation. Discuss it in detail.

PART-B

Write short notes on any FIVE of the following:

Draw labeled diagrams wherever necessary. 5x2=10M

4. Fluid mosaic model of plasma membrane.
5. Polytene chromosomes.
6. Pleiotropy
7. Gynandromorphs.
8. Human Karyotype
9. Hardy Weinberg law
10. Industrial melanism
11. Land of Marsupials.

PART-C

Answer the following in one or two sentences. 10x1=10M

12. Zymogen gramules
13. Sat chromosomes
14. Viroids
15. Detoxification
16. Alleles
17. Free martin
18. Barr body
19. Genetic drift
20. Use and disuse theory
21. Wallace line.

SUBJECT CODE: ZOO-3A

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU

III B.Sc. – V SEMESTER END EXAMINATION - OCTOBER 2017

ZOOLOGY PAPER V

ANIMAL BIOTECHNOLOGY

Time: 3 hrs. Max.Marks: 50

PART - A

I Long Answer Questions. Answer all the following: 3x10=30M
Draw labeled diagrams wherever necessary.

1. a. Explain different types of DNA modifying enzymes used in Biotechnology.

OR

b. Write about various types of Natural cell culture media.

2. a. Write an essay on Hybridoma technology.

OR

b. Give an account of Stem cell Technology.

3. a. Explain the process of Artificial insemination.

OR

b. Describe the process of DNA fingerprinting.

PART – B

II Write Short notes on any FIVE of the following: 5x2=10M
Draw labeled diagrams wherever necessary.

4. P^{BR}
5. PCR
6. Polymer Chain Reaction.
7. Microinjection
8. Cryopreservation
9. Transgenic Sheep
10. Super Ovulation
11. Chromatography

PART-C

II Answer the following in one or two sentences. 10x1=10M

12. YAC
13. Ligase
14. cDNA Library
15. Western blotting
16. CHO
17. Primary culture.
18. Dolly
19. Xenotransplantation
20. Air Lift
21. Feb Batch

SUBJECT CODE: ZOO-4A

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU

III B.Sc. – V SEMESTER END EXAMINATION - OCTOBER 2017

ZOOLOGY PAPER VI

ANIMAL HUSBANDRY

Time: 3 hrs. Max.Marks: 50

PART - A

I Long Answer Questions. Answer the following: 3x10=30M
Draw labeled diagrams wherever necessary.

1.a. Give an account on the Management of Chicks.

OR

b. Explain the Management of growers in detail.

2.a. Explain Viral and Bacterial diseases you have studied.

OR

b. Discuss various methods of hatching of Poultry birds.

3.a. Write an essay on Housing of dairy animals.

OR

b. Discuss the Care and Management of heifer.

PART – B

II Write Short notes on any FIVE of the following. 5x2=10M
Draw labeled diagrams wherever necessary.

4. Vaccination to Chicks
5. Ranikhet disease
6. Grit
7. Brooding
8. Exotic breed.
9. Castration
10. Weaning of Calf
11. Dry animal

PART – C

III Answer the following in one or two sentences. 10x1=10M

12. Cannibalism
13. Dubbing
14. Curled Toe Paralysis
15. Crazy chick disease.
16. Nipple drinking.
17. Fumigation
18. Pen type barn
19. Central herd book
20. FMD
21. Steaming up

PAPER CODE: ZOO-3B

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.

III B.Sc.– VI SEMESTER END EXAMINATION – MARCH 2016

ZOOLOGY PAPER III

ANIMAL PHYIOLOGY. GENETICS AND EVOLUTION

Time: 3 hrs. Max.Marks: 50

PART - A

I Long Answer Questions. Answer the following: 3x10=30

1a) Explain "Sliding Filament mechanism" in a skeletal muscle and add a note on Chemical changes during contraction.

OR

b) Give an account on conduction and Propagation of Nerve impulse.

2 a) Describe the structure of Thyroid gland and their hormones and Functions.

OR

b) Explain the basic mechanism of Homeostasis and Temperature regulation in Man.

3.a) Give an account on Gene regulation in Bacteria OPERON MODEL, LAC OPERON.

OR

b) Explain the role of Mutations in the process of Organic Evolution.

PART – B

II Write short notes on any FIVE of the following. 5x2=10

4. All or none principle/response
5. Cardiac muscle
6. Adrenal hormones
7. FSH
8. Hypoglycemic hormone
9. Genetic code
10. Palindrome sequence
11. Allopatry and Sympatry

PART – C

Answer the following in one or two sentences. 10x1=10

12. Schwann Cell
13. 'Z' Line
14. Master gland
15. Ductless gland
16. Homeostasis
17. Physical and chemical role of ATP
18. Ribosome
19. Codon
20. Demes
21. Migration

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PAPER CODE: ZOO-2B

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.

I B.Sc. – II SEMESTER END EXAMINATION – MARCH 2016

ZOOLOGY PAPER I

ANIMAL DIVERSITY OF VERTEBRATES

Time: 3 hrs. Max.Marks: 50

NOTE: Answer ALL questions.
Draw labeled diagrams wherever necessary.

PART-A

I Long Answer Questions. Answer the following: 3x10=30

1 a) Describe the life history of Hudmania.

OR

b) Explain the differences between Petromyzon and Myxine.

2 a) Describe the Parental care in Amphibia.

OR

b) Write the General characters and classification of Reptilia.

3. a) Write an essay on Flight adaptations in Binds.

OR

b) Describe the Dentition in Mammals.

PART-B

II Write short notes on any FIVE of the following: 5x2=10

4. Branchiostoma
5. Scoliodon.
6. Dipnoi
7. Apoda.
8. Calotes Brain.
9. Archaeoptenyx.
10. Retiti.
11. Prototheria.

PART – C

III Answer the following in One or Two sentences. 10x1=10

12. Retrogressive Metamorphosis.
13. Tunicata.
14. Cycloid Scales
15. Cyclostomes
16. Rachophorons
17. Sphenodon.
18. Quill feather.
19. Neoguathae
20. Entheria
21. Primates.

PAPER CODE: ZOO-3A

CH.S.D.ST.THERESA'S AUTONOMOUS COLLEGE FOR WOMEN:ELURU

III B.Sc. – V SEMESTER END EXAMINATION - OCTOBER 2016

ZOOLOGY PAPER III

ANIMAL PHYSIOLOGY, GENETICS AND EVOLUTION

Time: 3 hrs. Max.Marks:50

PART – A

I Long Answer Questions. Answer ALL the following.
Draw Labelled diagrams wherever necessary. 3x10=30M

1 a) Explain the process of chemical Digestion of food materials like proteins, carbohydrates and Lipids.

OR

b) Give an account of Transportation of Oxygen.

2.a) Describe the structure of Mammalian heart.

OR

b) Write an essay on formation of Nitrogenous Wastes.

3. a) Describe the interaction of genes with suitable examples.

OR

b) Explain DNA as genetic material with the help of Griffith's experiment and Hershey chase experiment.

PART – B

II Write short notes on any FIVE of the following.
Draw labeled diagrams wherever necessary. 5x2=10M

4. Gastrointestinal hormones.
5. Structure of mammalian lungs.
6. Ureotelic animals.
7. Open and closed circulation.
8. Barr bodies and Lyon hypothesis.
9. Edward Syndrome.
10. Natural Selection
11. Hardy – Weinberg's Law.

P.T.O.

PART – C

III Answer the following in one or two sentences. 10x1=10

12. Intnacellular digestion.
13. Haemocynin
14. Tachycardia.
15. Nephron
16. Amniocentesis
17. Turner Syndrome
18. Internal respiration.
19. Neurogenic heart.
20. Genetic drift
21. Gene Frequency

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PAPER CODE: ZOO-4B

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.

III B.Sc. – VI SEMESTER END EXAMINATION – MARCH 2016

ZOOLOGY PAPER IV

FISHERIES, AQUACULTURE AND ANIMAL BIOTECHNOLOGY

Time: 3 hrs. Max.Marks: 50

NOTE: Answer ALL questions.
Draw labeled diagrams wherever necessary.

PART-A

I Long Answer Questions. Answer the following: 3x10=30

1.a. What are the Gear used in Fresh water fish culture.

OR

b. Write an essay on Brackish water fish culture in Andhra Pradesh.

2. a. Write a detailed account on Induced Breeding Technique used in Indian major Carps.

OR

b. Write an essay on Fish-byproducts.

3. a. Describe the applications of Stem Cell Technology.

OR

b. Describe the cloning Vectors characters and types of Plasmids.

PART-B

II Write short notes on any FIVE of the following: 5x2=10

4. Catamaran.
5. Polyculture
6. Macrobrachium rosembergii
7. Integrated Aquaculture
8. Salting
9. Fish Maws.
10. Vector.
11. Insulin.

PART-C

III Answer the following questions in one or two sentences. 10x1=10

12. Lates calcarifer
13. Sangadam
14. P^H
15. Hapa
16. Nursery Pond
17. Penaeus Monodon.
18. Ova prim.
19. Fish guano
20. Parkinsan's disease
21. Cloning.

PAPER CODE: ZOO-1B

CH.S.D.ST. THERESA'S AUTONOMOUS COLLEGE FOR WOMEN: ELURU.

I B.Sc. – II SEMESTER SUPPLEMENTARY EXAMINATION – MARCH 2016

ZOOLOGY PAPER I

INVERTEBRATES AND BIO MOLECULES

(for Present II Years)

Time: 3 hrs. Max.Marks: 50

PART - A

I Long Answer Questions. Answer the following:
Draw labeled diagrams wherever necessary. 3x10=30

1 a. Explain the respiratory system of Prawn

OR

b. Explain the structure and affinities of Peripatus

2 a. Write about the water vascular system of Starfish.

OR

b. Explain the digestive system of Pila.

3 a. Explain the structure of DNA.

OR

a. Classify Proteins based on functions.

PART – B

II Write short notes on any FIVE of the following 5x2=10

4. Pedicillaria
5. Pearl formation
6. RNA
7. Glucose
8. Balanoglossus
9. Mautle Complex
10. Starch
11. Sericulture.

PART – C

III Answer the following in one or two sentences. 10x1=10

12. Antennule
13. Ommatidium
14. Radula
15. Hemichordata
16. Madreporite
17. Fructose
18. Telson
19. Chitin
20. Chargaff's rule
21. Peptide Bond