

**Govt Chandrapal Dadsena College Pithora**  
**Pre Final exam- 2019-2020**

**B.sc I- Zoology**

**M.M. 50**

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Q.1. Write detail notes on the development of Balanoglossus. Write physiology and affinity of Balanoglossus.

OR

Short Notes- any two

- I. Ribosome
- II. D.N.A.
- III. Oral hood of amphioxus

Q.2. Give detail Account of parental care of amphibian. ?

OR

Short Notes- any Two

- I. Migration in fishes
- II. Poisonous and Non-Poisonous snake
- III. Cancer immunity

Q.3. Write an essay on protozoa and Disease. ?

OR

Explain detail "flight adaptation" in birds ?

Q.4. Describe life cycle of Liver fluke. ?

OR

Short Notes – Any Two

- I. Mirasidium
- II. Fertilization
- III. Cleavage

Q.5. Describe Respiratory system of

OR

Short Notes- Any two

- I. Placenta
- II. Embryonic induction
- III. Glochidium larva



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Q.1. Describe detail notes on plasma membrane. ?

OR

Short Notes- any two

- I. Chromosome
- II. Wheel organ of amphioxus
- III. Oral hood of amphioxus

Q.2. Explain the various stages meiosis cell division and its importance. ?

OR

Short Notes- any Two

- I. Neoteny
- II. Snake Venom
- III. Mitosis cell division

Q.3. Write an essay on protozoa and Human disease. ?

OR

Write Comparative between proto, meta and eutherial. ?

Q.4. Write a detail accounts of life cycle of fasciola hepatica. ?

OR

- IV. Describe the process of Gastrulation upto formation of three germinal layer in folly. ?

Q.5. Describe water vascular system of stay fish. ?

OR

Short Notes- Any two

- I. Differentiation
- II. Embryonic membrane
- III. T.S. of Tube feet of star fish
- IV. Organizer

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Q.1. Brief explain in different between prokaryotic and Eukaryotic cell. ?

OR

Describe the blood Grculatory system fo amphioxus. ?

Q.2. Give detail Account of Parental care of fish.?

OR

Short Notes- any Two

- I. mitosis
- II. meiosis cell division
- III. migration on in fish

Q.3. Give a comparative accounts between prototherio metatheria and eutheria ?

OR

Write an essay on protozoa and disease.?

Q.4. What is game to genesis ? Explain spermatogenesis.?

OR

Short Notes- any Two

- I. Redia larva
- II. Sporocyst
- III. Mirascidium

Q.5. Describe Respiratory system of Pila. ?

OR

Short Notes- Any two

- I. Table feet of Star fish
- II. Fortilization
- III. Embryonic membrane

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Q.1. Describe the Comparison of petromyzon Maxine. ?

OR

Short Notes – any two

- I. Plasma membrane
- II. Nucleus
- III. Oral hood

Q.2. Describe detail notes on various types of fish cell.?

OR

Short Notes- any Two

- I. Neotany
- II. Mitosis cell division
- III. Snake Venom

Q.3. Life cycle of Obelia. ?

OR

Explain the Sentence “Birds are glorified reptily.”

Q.4. Describe the process of gastrulation upto formation of three germinal layer in frog. ?

OR

Short Notes- any Two

- I. Parthenogenesis and its importance
- II. Cogenesis
- III. Crania larva

Q.5. Describe detail on extra membrane. ?

OR

Short Notes- Any two

- I. Pedicellaria of star fish
- II. Differentiation
- III. Water vascular system of Star fish

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Q.1. Describe the Structure and mechanism of function of light microscope briefly

OR

Short Notes – any two

- I. Comparison between Petromyzone and mixino
- II. Golgi complex
- III. Origin and classification of chordate

Q.2. Explain in detail of mitosis cell division.?

OR

Short Notes- any Two

- I. Parental care of fish
- II. Cancer cell
- III. Crossing over

Q.3. Explain “fight adaptation” in birds detail.?

OR

Classify animals upto order with diagram

- I. Octopus II. Tape-worm III. Sea fan IV. Physalia V. Pinnetula

Q.4. What is gametogenesis ? explain spermatogenesis in brief.

OR

Short Notes- any Two

- I. life cycle of liver fluke
- II. Cogensis
- III. Redia larva

Q.5. What are embryonic membrane? Explain their development and function in Brief.?

OR

Short Notes- Any two

- I. Embryonic induction

- II. Torneria larva
- III. Bipeneria larva

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Q.1. Write detail notes on the development of balanoglossus write physiology and affinity of balanoglossus

OR

Short Notes – any two

- I. Cancer immunity
- II. D.N.A.
- III. Parental care amphibia

Q.2. Write an essay on protozoa and disease.?

OR

Short Notes- any Two

- I. Life cycle of Liver fluke
- II. Fertilization
- III. Flight adaptation in birds

Q.3. Describe Reparatory system of Pila?

OR

Short notes- any two

- I. Differentiation
- II. Pedicillaria of star fish

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Q.1. Explain the various stages meiosis cell division and its importance. ?

OR

Short Notes – any two

- I. Chromosomes
- II. Golgi Complex
- III. Mitosis cell division

Q.2. Write a detail accounts of life cycle of fasciola hepatica.?

OR

Short Notes- any Two

- I. Polyp and medusa of obelia.
- II. Metacerkeria larva
- III. Protozoa and Human disease

Q.3. Describe water vascular system of star fish. ?

OR

Short notes- any two

- I. T.S. of tube feet of star fish
- II. Organizer



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Q.1. Brief explain in different between Prokaryotic and Eukaryotic cell.?

OR

Short Notes – any two

- I. Blood Circulatory system of amphioxus
- II. Parental care of fish
- III. Oral hood of amphioxus

Q.2. Give a comparative accounts between Prototheria metatheria and Eutheria ?

OR

Short Notes- any Two

- I. Spermatogenesis
- II. Life cycle of Fasciola hepatica
- III. Protozoa animal

Q.3. Describe development of chick its three germ layer.?

OR

Short notes- any two

- I. Fertilization
- II. Gastrulation
- III. Placenta

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Q.1. Describe the blood circulatory system of amphioxus. ?

OR

Short Notes – any two

- I. Comparison of petromyzen myxin
- II. Scales of fish
- III. Mitosis cell division

Q.2. Explain the sentence “Birds are glorified reptiles” ?

OR

Short Notes- any Two

- I. Life cycle of obelia
- II. Gastrulation of frog
- III. Parthenogenesis

Q.3. Describe the water vascular system of star fish. ?

OR

Short notes- any two

- I. Bipennaria larva
- II. Extra membrane
- III. Differentiation

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Q.1. Describe the structure and mechanism of function of light microscope briefly  
OR

Short Notes – any two

- I. Golgi Complex
- II. Life cycle o liver fluck
- III. Flight adaptation

Q.2. What is Gametogenesis? Explain spermatogenesis in brief ?

OR

Short Notes- any Two

- I. Cogenesis
- II. Life cycle of liver fluke
- III. Flight adoption

Q.3. Describe water vascular system of star fish.

OR

Short notes- any two

- I. Embryonic induction
- II. Torn aria larva
- III. Bipenneria larva

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Q.1. Describe Comparison of amphibia, Reptiles and mamm

OR

Describe the biosynthesis and Secretion of hormone secreted from thyroid

Gland.?

Q.2. What is Gametogenesis.? Explain Cogenesis in brief. ?

OR

Write a detail notes on evolutionary process of heart in vertebrates. ?

Q.3. Write is endocrine gland ? explain It in detail.?

OR

Describe the evolution of horse.?

Q.4. Write detail Notes on Cordic cycle.?

OR

Discuss about the effect of Hormone on the behavior?

Q.5. Describe the physiology of Nerve impuls.?

OR

Describe the chemical pest Control.

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Q.1. Write a Comparative account of skin in vertebrates. ?

OR

Describe biosynthesis of adrenal gland.?

Q.2. Explain the evolution of aortic arches in vertebrates. ?

OR

Write detail physiology of lactation. ?

Q.3. Describe in detail about pituitary gland.?

OR

Describe detail notes on organic evolution. ?

Q.4. Write detail notes on mechanism of blood coagulation.?

OR

Explain notes on organic evolution. ?

Q.5. Write notes on structure and function of ear.?

OR

Describe detail account of past control.?

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Q.1. Describe the biosynthesis and section of Hormones secreted form adrenal Gland.?

OR

Write Short Notes-

- I. Types of feather
- II. Air sac of birds

Q.2. Describe Comparative Between Aortic arches of Vertebrates.?

OR

Describe the pregnancy.?

Q.3. Describe the pituitary Gland.?

OR

Write a short Notes

- I. Brain
- II. Spinal cord
- III. Mutation

Q.4. Describe detail Notes on E.C.G.?

OR

Describe the effect of Hormonal on the behavior.?

Q.5. Explain about structure and function of ear.?

OR

Write Short Notes-

- I. Biological pest Control
- II. Chemical pest Control

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Q.1. Give Detail accounts of Integument and its Derivation.?

OR

Describe the biosynthesis of ovarian Hormones.?

Q.2. Explain the Different types of kidney in vertebrates. ?

OR

Describe the Structure and function of extra embryonic membrane.?

Q.3. Write a suitable note On Brain of mammals.?

OR

Write an essay on “mutation”

Q.4. Describe the physiology of digestion In parts of the Alimentary Canal.?

OR

Write an essay on “Tribes”

Q.5. Describe the structure and function of mammals eyes.?

OR

Write An essay on sericulture.?

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Q.1. Give detail Accounts of Integument and its derivation. ?

OR

Describe the biosynthesis and secretion of hormone secreted from adrenal Gland.?

Q.2. Describe the hormonal regulation of gamatogenesis.?

OR

Explain the different types of kidney in vertebrates.?

Q.3. Describe the evolution of house.?

OR

Write shorts notes-

- I. Spinal cord
- II. Endocrine gland

Q.4. Write detail notes on mechanism of blood co-angulation.?

OR

Describe the Role of bor manes In Reproductive Behavior of animals.?

Q.5. Write Notes on structure and function of working eye.?

OR

Explain the conduction of Nerve impulse.?



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Q.1. Describe the biosynthesis and secretion of hormone secreted from thyroid Gland.?

OR

Short Notes- any two

- I. Cogeneration
- II. Lactation
- III. Comparative skin of vertebrates.

Q.2. Describe the evolution of Heart.?

OR

Short Notes-any two

- I. Evolution of horse
- II. Sericulture
- III. Physiology of heart

Q.3. Write Notes on Structure and function of working eye.?

OR

Short Notes- any two

- I. Osmoregulation
- II. Cardiac cycle.
- III. E.C.G.

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Q.1. Explain detail on physiology lactation. ?

OR

Short Notes- any two

- I. Kidney vertebrates
- II. Ovarian gland
- III. Skin in vertebrates

Q.2. Describe in detail about thyroid Gland.?

OR

Short Notes-any two

- I. Mutation
- II. Cardiac cycle
- III. Taxis behavior

Q.3. Describe the Osmoregulation.?

OR

Short Notes- any two

- I. Apiculture
- II. Pest Control
- III. Nerve impulse

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Q.1. Describe Comparison of amphibian, Reptiles and mammals of skin.?

OR

Short Notes- any two

- I. Ovarian hormones
- II. Lactation
- III. Kidney in vertebrates

Q.2. Explain about physiology of heart.?

OR

Short Notes-any two

- I. Cardiac cycle
- II. Evolution of horse
- III. Spinal cord

Q.3. Describe the physiology of Nerve impulse.?

OR

Short Notes- any two

- I. Osmoregulation
- II. Sericulture
- III. Biological pest Control

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Q.1. Give detail Accounts of Integument and its derivation. ?

OR

Describe the biosynthesis of ovarian hormones.?

Q.2. Describe the Aortic arches.?

OR

Short Notes-any two

- I. Evolution of heart
- II. Pectoral girdle
- III. Pregnancy

Q.3. Describe the physiology of digestion in parts of the alimentary Canal.

OR

Short Notes- any two

- I. Blood Coagulation
- II. Reflex
- III. Mutation

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Q.1. Write short notes – any two

- I. Types of feather
- II. Scales of fish
- III. Skin of fish

OR

Describe the biosynthesis and secretion of hormones secreted from adrenal Gland.?

Q.2. Write a short notes- any two

- I. Metanephric kidney
- II. Parturition
- III. Pronephric kidney

OR

What is a gamatogenesis describe the hormones regulation jof gamatogenesis

Q.3. Describe the Natural Selection.

OR

Describe the Reproductive behavior.

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Q.1. Describe Population character and Density Regulation. ?

OR

Write detailed notes on mutation. ?

Q.2. Write an essay on "Conservation of natural resources. ?

OR

What are hydrolytic enzyme and explain its classification and nomenclature.

Q.3 Write essay on food Poisoning. ?

OR

Short Notes – any Two

- i. Toxicity
- ii. Symptoms of honey bee.
- iii. Active of enzyme
- iv. Active transport

Q.4. Give an account of microbiology of milk and milk product. ?

OR

Short Notes – any two

- I. Gene cloning
- II. Recombinant DNA Technique
- III. Biotechnology

Q.5 Write a detailed notes on PH meter. ?

OR

Short Notes- any Two

- I. Trypanosome
- II. Insect
- III. Schist soma

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Q.1. Write an essay on population ecology. ?

OR

What is linkage ? explain the kinds of giving example ?

Q.2. Explain in detail the flow of energy in a ecosystem ?

OR

Short Notes – any two

- I. buffer
- II. Active transport
- III. Ecological pyramids.

Q.3 Describe toxicity of metallic agents. ?

OR

Short Notes – any Two

- I. Facts metabolism
- II. Snake venom
- III. Inorganic toxic agents

Q.4. Write an essay on sewage treatment.

OR

Write an essay on application of biotechnology. ?

Q.5 Write an essay on vector insect ?

OR

Describe the principle working type and application of e.m ?

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Q.1. Give a detail Notes on Biochemical Cycle. ?

OR

Describe the Operant Model.

Q.2. Describe the limiting factor. ?

OR

Short Notes – any two

- I. Buffer
- II. Structure of mitochondria
- III. E.I.A.

Q.3 Write an essay on Carbohydrate metabolism. ?

OR

Protein metabolism. ?

OR

Write essay on food Poisoning. ?

Q.4. Write essay on Industrial biotechnology. ?

OR

Describe the detail Notes scope and Important of biotechnology. ?

Q.5 Explain the Structure of compound microscope and its mechanism and Application. ?

OR

Short notes- any two

- I. Phase Contrast
- II. Histochemical method of Protein determination.
- III. Trypanosome



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Q.1. Explain in detail the flow of energy in a ecosystem. ?

OR

Short Notes – any Two

- I. Single gene disorder
- II. Lethal gene
- III. Seri linkage

Q.2. Write an essay on Conservation of Natural Resources. ?

OR

Short Notes – any two

- I. Pond ecosystem
- II. Active transport
- III. E.I.A.

Q.3 Write an essay on Food Poising.

OR

Describe the various biochemical stages of Protein metabolism. ?

Q.4. Describe The food processing industry. ?

OR

Short Notes – any two

- I. DNA finger Printing
- II. PCK
- III. Applied microbiology

Q.5 Describe the Principle working type and application of e.m. ?

OR

Short notes- any two

- I. Insect
- II. Chromatography
- III. Life cycle of Trypanosome

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Q.1. What is linkage. ? Explain the kinds of linkage giving example. ?

OR

Give a detail notes on biochemical cycle. ?

Q.2. What are hydrolytic enzyme and explain its classification and nomenclature?

OR

Describe the Food chain and food web.

Q.3 Describe toxicity of metallic agents.?

OR

Short Notes-

- I. Protein structure and function.
- II. Snake venom
- III. Inorganic toxic agents.

Q.4. Write an essay on sewage treatment.?

OR

Short Notes – any two

- I. Gene cloning
- II. Recombinant DNA
- III. PCK

Q.5 Write detailed notes on PH meter ?

OR

Short notes- any two

- I. Vector insect
- II. Phase Contrast
- III. Histochemical method.

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Q.1. Describe Population Characters and density regulation. ?

OR

Short Notes- any Two

I. Community      II. Mutation      III. Hydrolytic enzyme

Q.2. Explained the scope and importance of Biotechnology. ?

OR

Short Notes – any two

- i.      Limiting Factory
- ii.     Microbiology
- iii.    Food poisoning

Q.3 What is Vector ? Discuss about vector insect of Different disease.

OR

Short Notes-

- i.      Pathogenic Nematodes in man
- ii.     PH meter
- iii.    Trypanosome
- iv.     Phase Contrast microscope

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Q.1. What is buffer ? Explain it in detail ?

OR

Short Notes- any Two

- I. Sex linkage      II. Ecological pyramids
- III. Active transport in mitochondria

Q.2. Write an essay on sewage treatment. ?

OR

Short Notes – any two

- I. Milk and milk product
- II. PCK
- III. Recombinant DNA
- IV. Facts metabolism

Q.3 Write an essay on life Cycle Trypanosome ?

OR

Short Notes-

- i. Vector insect
- ii. Chromatography
- iii. DNA finger printing

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Q.1. Describe the Oberon model. ?

OR

Short Notes- any Two

- I. Butter Solution      II. E.I.A.
- III. Food Poisoning

Q.2. Write essay on industrial biotechnology ?

OR

Short Notes – any two

- i. Carbohydrates metabolism
- ii. Sewage
- iii. Recombinant DNA

Q.3 Explained the structure of Compound microscope and its mechanism and application. ?

OR

Short Notes-

- i. Trypanosome
- ii. Milk and milk product
- iii. Industrial biotechnology

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Q.1. Give a detailed the notes on biochemical cycle. ?

OR

Short Notes- any Two

- i. sex linkage
- ii. Food chain
- iii. Population ecology

Q.2. Write an essay on application of biotechnology. ?

OR

Short Notes – any two

- i. Inorganic toxic agents
- ii. Milk and milk product
- iii. Protein metabolism

Q.3 Describe the principle working type and application of e.m. ?

OR

Short Notes-

- i. Vector Insect
- ii. Life Cycle of trypanosome
- iii. Chromatography

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Q.1. What is Linkage ? Explain the kinds of linkage giving example. ?

OR

Short Notes- any Two

- i. Hydrolytic enzyme
- ii. Single gene disorder
- iii. Ecological pyramids

Q.2. Describe Toxicity of metallic agents. ?

OR

Short Notes – any two

- i. Sewage treatment
- ii. Conservation of Natural Resources
- iii. Recombinant

Q.3 Write detailed Notes on PH meter ?

OR

Short Notes-

- i. Pathogenic disease
- ii. Schistosoma
- iii. Colorimeter

Q1 - Describe comparison of amphibian reptiles mammals of skin?

OR

Describe the biosynthesis and secretion of hormone secreted from thyroid gland?

Q2 → Write a detail notes on evolutionary process of heart in vertebrates?

OR

What is gametogenesis? explain Oogenesis in brief?

OR

Describe the evolution of house?

Q2 - Explain about and function of ear?

OR

Explain about physiology of heart?

Principal  
Gandrapal Dattatreya Govt.  
College Pithorapur,  
Distt. Mahasamund (C.G.)

Q1 - What are linkage? Explain the kinds of linkage giving examples?

OR

What are hydrolytic enzyme explain its classification and nomenclature?

Q2 - Write an essay on Carbohydrates Metabolism?



Q.1 → Brief explain in different between Prokaryotic and Eukaryotic Cell?  
or

Write an essay on protozoa and Disease

Q.2 - Describe Life Cycle of liver fluke?  
or

Explain in detail of meiosis cell division?

Q.3 Describe respiratory system of Pika.

Write short notes on the following -

(A) Comparative account of Petromyzon and Muraena

(B) Oral hood and Wheel Organ of amphioxus

or

Give detail account of parental Care

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Chandrapal Dadsena Gok  
College Pithora,  
Distt-Mahasamund (C.G.)

Q.1 - Describe Comparison of amphibia reptiles mammals of skin?  
or

Describe the biosynthesis and secretion of Hormone secreted from thyroid gland?

Q.2 - Write detail notes on evolutionary

Unit Test - B Sc. III Zoology

Q1 - What are linkage? Explain the kinds of linkage giving examples?

OR

What are hydrolytic enzyme explain its classification and nomenclature?

Q2 - Write an essay on Carbohydrates Metabolism?

OR

Write an essay on Protein metabolism?

OR

Explain the Scope and Importance of Biotechnology?

Q3 - Describe the Recombinant DNA Technology

OR

Write detailed notes on phase Contrast microscope →

What is Vector? Discuss about Vector insert of different Disease?

Unit Test - B Sc. III Zoology

Q.1 - What are linkage? Explain the kinds of linkage giving examples?

OR

What are hydrolytic enzyme explain its classification and nomenclature?

Q.2 - Write an essay on Carbohydrates Metabolism

OR

Write an essay on protein metabolism?

OR

Explain the Scope and Importance of Biotechnology?

Q.3 - Describe the Recombinant DNA Technology.

OR

Write detailed notes on phase Contrast microscope →

OR

What is Vector? Discuss about Vector insect of different Disease?



Unit Test - B Sc. III Zoology

Q.1 - What are linkage? Explain the kinds of linkage giving examples?

OR

What are hydrolytic enzyme explain its classification and nomenclature?

Q.2 - Write an essay on Carbohydrates Metabolism?

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Explain the Scope and Importance of Biotechnology?

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OR

Write detailed notes on phase Contrast microscope →

What is Vector? Discuss about Vector insect of different Disease?

Unit test

B.Sc. II - Zoology

Q.1 Describe comparison of amphibian reptiles  
mammals of skin?

or

Describe the biosynthesis and secretion of  
Hormone secreted from thyroid gland?

Q.2 Write a detail notes on evolutionary  
process of heart in Vertebrates?

or

What is gametogenesis? explain Oogenesis  
in brief?

or

Describe the evolution of house?

Q.3 Explain about and function of ear?

or

Explain about physiology of heart?

1111

Principal  
Chandrapal Dadsena Govt.  
College Pithora,  
Distt. Mahasamund (C.G.)

Q.1 - What are linkage? Explain the kinds of linkage giving examples?

OR  
What are hydrolytic enzyme explain its classification and nomenclature?

Q.2 - Write an essay on Carbohydrates Metabolism?

OR  
Write an essay on protein metabolism?

OR  
Explain the Scope and Importance of Biotechnology?

Q.3. Describe the Recombinant DNA Technology.

OR  
Write detailed notes on phase Contrast microscope →

OR  
What is Vector? Discuss about Vector insect of different Disease?