LONG QUESTIONS

LONG QUESTIONNOS

- ✓ Write note on ormoregulation in marine fishes.
- ✓ Write down the structure of a nephron.
- ✓ Discuss exerction in Cockroach.
- Describe various kidney problems and their cure in human.
- ✓ Discuss major homeostatic functions of liver
- Write about Necrosis and Apoptosis.
- ✓ Define non-disjunction and discuss its effect with one example.
- ✓ Explain about interphase of cell cycle.
- Explain the stages of prophase I of meiosis I.
- ✓ Describe the excretion in plants.

LONG QUESTION NO. 6

- Define and explain briefly the fibrous, cartilage and synovial joints.
- ✓ What is endoskeleton? Describe bone and car
- ✓ What is Sliding Filament Model of n contraction? What does it explain?
- ✓ Write a note on human appendicular skeleton.
- ✓ Write down the mechanism of muscle contrac
- ✓ Describe the significance of secondary growth
- ✓ Discuss the arrangement of vertebrae in v

- Write a note on grazing.
- ✓ Write a note on nitrogen cycle.
- ✓ Define succession. Explain the different stages of xerosere.
- ✓ Discuss the flow of energy in food chain of an ecosystem.
- ✓ Explain the biotic component of an ecosystem.
- ✓ Give an account of paratonic movement in plants.

LONG QUESTION NO. 7

- ✓ What are receptors? Describe their different types.
- ✓ Write a note of thyroid gland?
- ✓ Describe in detail the role of adrenal glands
- ✓ Write any four differences between nervous and chemical coordination.
- ✓ Define and explain feedback mechanism?
- ✓ Describe initiat or of nerve impulse.
- ✓ Describe the role of auxins.
- Nervous system of Hydra is better developed than of Planatia. Discuss.

- Describe comparative embryology and molecular biology as an evidence of evolution.
- ✓ Describe evidence of evolution by or raparative anatomy.
- Describe the evidences of evolution from Biogeography and fossil record.
- Piscuss evolution from prokaryotes to eukaryotes.
- ✓ Explain the Theory of Inheritance of Acquired Characteristics.
- ✓ State different factors affecting the gene frequency.

LONG QUESTION NO. 8

- ✓ What is incomplete dominance? Explain it with an example.
- ✓ Explain the ABO blood group system.
- ✓ What is Mendel's law of segregation? Illustrate it with an example
- ✓ Discuss sex-linkage in humans with one example.
- ✓ Write a note on test tube babies.
- ✓ Give a comprehensive comparison between asexual and sexual reproduction.
- ✓ Explain Sexually Transmitted Diseases in humans.
- ✓ Describe human female reproductive system.

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- Describe the genetics of color-blindness in humans.
- ✓ Explain in detail diabetes mellitus and its types.
- ✓ Explain different patterns of sex determination in animals.
- Describe the birth in man.
- ✓ Define and explain photoperiodism.
- ✓ Explain different patterns of sea determination in animals.

BIOLOGY 12

LONG QUESTION NO. 9

- ✓ Write a note on tissue culture and cloning.
 - ✓ What is the methodology for producing recombinant DNA to be used in gene cloning?
 - ✓ 3. What is the polymerase chain reaction (PCR), How it is carried out to produce multiple copies of a DNA segment?
 - ✓ What is DNA finger printing, a process that utilizes the entire genome?

- ✓ Define and explain regeneration.
- ✓ Discuss different phases of plant growth.
- ✓ What is aging? Describe its causes and symptoms.
- ✓ Define abnormal development. Explain different factors causing abnormalities.
- ✓ Describe the role of nucleus in development.