

10th class biology guess paper 2022

Biology Important short questions chapterwise

Unit 1:

- stomata and lenticels
- functions of the nasal cavity
- functions of mucus
- difference between respiration and breathing
- what is diaphragm
- trachea
- symptoms of pneumonia and asthma
- acute and chronic bronchitis
- effects of smoking
- voice box/bronchus

Unit 2

- homeostasis and example
- difference between osmoregulation and thermoregulation ·
- pressure filtration
- tubular secretion
- glomerulus filtrate
- lithotripsy
- renal cortex and renal medulla
- kidney transplant
- dialysis
- kidney stone and its symptoms

Unit 3

- coordination and names of its types
- ganglions
- spinal cord and its functions

- components of coordination
- difference between stimulus and receptor
- difference between a reflex action and reflex arc
- somatic and autonomic nervous system
- myopia and hypermetropia
- define hormone and endocrine system
- pituitary gland and its functions

Unit 4

- skeleton and endoskeleton
- difference between flexer and extensor
- osteocytes
- number of bones in the axial and appendicular skeleton
- types of joints
- difference between tendons and ligaments
- what is bone? difference between compact and spongy bone
- osteoporosis

Unit 5

- reproduction and its types
- fragmentation
- multiple fission
- parthenocarpy
- benefits and disadvantages of vegetative propagation
- endospores
- pollination, self-pollination and cross-pollination
- alternation of generations

Unit 6

- what is a trait
- define heredity with example
- co-dominance and incomplete dominance
- difference between genotype and phenotype
- difference between dominant and recessive allele
- difference between gene and allele

- artificial and natural selection
- difference between homozygous and heterozygous allele
- difference between translation and transcription

Unit 7

- define ecology and community
- define ecosystem
- define mutualism with an example
- what is acid rain and give its effects
- predation with examples
- difference between food chain and food web
- difference between ecto and endoparasites
- difference between nitrification and denitrification
- what is symbiosis

Unit 8

- What is biotechnology
- single cell protien
- what is fermentor and give it advantages
- purposes of genetic engineering
- what is recombinant DNA?
- Define fermentation
- alcoholic and lactic acid fermentation

Unit 9

- Define pharmacology and give its relation to pharmacy.
- vaccine and vaccination
- narcotics
- hallucinogens
- sedative and its harms
- difference between analgesics and antibiotic

10th class biology important long questions 2022

Chapter 11: The osmoregulatory function of the kidney

Chapter 11: Structure and function of nephron (internal kidney) with diagram

Chapter 11: Dialysis and its types.

Chapter 11: Osmoregulation adaptations in plants.

Chapter 11: Difference between xerophytes and halophytes

Chapter 11: Difference between hydrophytes and xerophytes

Chapter 12: Write a note on the neuron with a diagram

Chapter 12: Structure of the human eye

Chapter 12: Write a note of forebrain

Chapter 12: Functions of lobes of the cerebrum

Chapter 12: Explain reflex arc and reflex action

Chapter 13: Cartilage and its types

Chapter 13: Type of joints

Chapter 13: Arthritis and its types

Chapter 14: Advantages and disadvantages of vegetative propagation

Chapter 14: Write a note on the reproductive system of female rabbit

Chapter 14: Conditions for germination of seed

Chapter 14: Spermatogenesis and oogenesis

Chapter 16: Nitrogen cycle

Chapter 16: Biotic elements of the ecosystem

Chapter 16: Ecological Primades and their types

Chapter 16: Carbon cycle

Chapter 17: Purposes and aims of genetic engineering

Chapter 17: Steps of genetic engineering Chapter 17: Uses

and importance of biotechnology Chapter 17: Fermenters

and their advantages Chapter 18: Sources of drugs

Chapter 18: Drug addiction and its impacts