

10th Biology Guess with 100% Success

Guess Paper 2020

Class: TEN

Subject: Biology

Most Important Short Questions

Unit 10

- Difference b/w breathing & respiration
- Lenticels & their function
- Larynx & function
- Voice box & vocal cords
- How sound is produced in larynx?
- Trachea, its length, role of C shaped rings in it
- Alveoli & function
- Pleural membranes & function
- Inhalation & exhalation
- Bronchitis & types
- Emphysema
- Asthma, symptoms & reasons
- Nicotine & harmful effects
- Stoma & lenticels

Unit 11

- Homeostasis with examples
- Osmoregulation & Thermoregulation
- Excretion
- Are guttation and dew synonyms?
- Hydrophytes, Xerophytes & halophytes with examples
- Skin & function
- Organs of urinary system of man
- Parts of nephron
- Renal corpuscle & its parts
- Lithotripsy
- Renal tubule
- Kidney failure & its causes
- Kidney transplant

Unit 12

- Coordination & types
- Stimulus & examples
- Receptors & effectors examples
- Coordinators & examples
- Effectors & examples
- Response & example

- Types of nerves
- Hypothalamus & its function
- Somatic nervous system
- Parts of inner ear
- Functions of oxytocin hormone
- Nervous system
- Reflex action & reflex arc
- Endocrine system

Unit 13

- Difference b/w exoskeleton & endoskeleton
- Function of skeletal system
- Cartilage & its structure
- Types of cartilage with definitions
- Bone & its function
- Compact bone
- Difference b/w cartilage & bone
- Appendicular skeleton
- Types of joints & examples
- Difference b/w hinge and ball and socket joints
- Tendon & its function
- Origin & insertion
- Antagonism
- Osteoporosis
- Rheumatoid arthritis its symptoms & causes
- Gout & its causes & symptoms

Unit 14

- Sexual & asexual reproduction
- Parthenogenesis with example
- Bulbs & examples
- Disadvantages of vegetative propagation
- Cloning & tissue culture
- Alternation of generation in plants
- Pollination & its types
- Double fertilization
- Epigeal & hypogeal germination with examples
- Conditions necessary for seed germination

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- Internal & external fertilization
- Oogenesis
- Causes of spread of AIDS

Unit 15

- Nitrogenous bases present in DNA double helix
- Genotype & phenotype
- Monohybrid cross
- Mendel's law of segregation
- Di-hybrid cross
- Mendel's law of independent assortment
- Co-dominance & example
- Sources of variations
- Difference b/w continuous & discontinuous variation
- Difference b/w artificial & natural selection
- Difference b/w breeds & varieties
- Main sources of variations in sexually reproducing population

Unit 16

- Food chain & Food web with examples
- Ecological pyramid
- Nitrogen fixation
- Nitrification & de-nitrification
- Assimilation
- Predation & example
- Difference b/w ecto-parasites & endo-parasites
- Mutualism & Commensalism with example
- Global warming
- Acid rain & how it is formed?

Unit 17

- Biotechnology
- Genetic engineering & its objectives
- Types of fermentation
- Fermentation with reference to biotechnology
- Alcoholic fermentation & its importance
- Lactic acid fermentation
- Names of organism involved in fermentation & uses
- Fermenter & its advantages
- Continuous fermentation
- Four achievements of genetic engineering
- Single cell protein

Unit 18

- Pharmacology
- Medicinal & addictive drugs
- Synthetic drugs & examples
- Analgesics & examples
- Antibiotics & examples
- What drugs are obtained from animals?
- Narcotics & examples and uses
- Antibiotics
- Difference b/w bactericidal & bacteriostatic antibiotics
- Vaccines
- Hallucinogens
- Social stigma
- Vaccines
- Work of Joseph Lister
- Problems of drug addiction

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Most Important Long Questions

1. (a). How gaseous exchange occurs in plants? **Unit 10**
(b). Write down the bad effects of smoking. **Unit 10**
2. (a). Describe the mechanism of breathing in humans. **Unit 10**
(b). Describe the signs, symptoms, causes & treatments of bronchitis & pneumonia. **Unit 10**
3. (a). Discuss the homeostasis of carbondioxide & oxygen in plants. **Unit 11**
(b). Discuss the roles of major organs involved in homeostasis in human body? **Unit 11**
4. (a). Explain the structure of nephron with the help of labeled diagram. **Unit 11**
(b). Describe the functioning of kidney. Also write a note on kidney transplant. **Unit 11**
5. (a). Define osmoregulations. Describe the role of kidney in osmoregulations. **Unit 11**
(b). Describe the structure & function of human brain. **Unit 12**
6. (a). Explain reflex action & reflex arc with diagram. **Unit 12**
(b). Describe the structure of human eye. **Unit 12**
7. (a). What is thyroid gland? Name its hormones & describe their functions. **Unit 12**
(b). What is neuron or nerve cells. Describe its structure. **Unit 12**
8. (a). Write a note on structure & function of human brain. **Unit 12**
(b). Define joint. Describe different types of joints. **Unit 13**
9. (a). Explain antagonism in muscle action selecting biceps & triceps as examples. **Unit 13**
(b). Define arthritis. Write its symptoms & treatment. Also describe its types. **Unit 13**
10. (a). What do you know about cartilage? Describe its types. **Unit 13**
(b). What is meant by binary fission. How asexual reproduction takes place in bacteria, amoeba and planaria. **Unit 14**
11. (a). What is meant by vegetative propagation. Describe different ways of natural vegetative propagation. **Unit 14**
(b). Describe two most common methods of artificial propagation. **Unit 14**
12. (a). Describe the processes of spermatogenesis & oogenesis. **Unit 14**
(b). Describe the male & female reproductive system of rabbit. **Unit 14**
13. (a). What conditions are necessary for the germination of seeds? **Unit 14**
(b). Write a note on Aids. **Unit 14**
14. (a). Describe the Watson-Crick model of DNA. **Unit 15**
(b). State & explain Mendel's law of segregation. **Unit 15**
15. (a). Write a note on artificial selection. **Unit 15**
(b). Discuss the biotic components of an ecosystem. **Unit 16**
16. (a). Write a note on nitrogen cycle & carbon cycle. **Unit 16**
(b). Write a note on symbiosis. **Unit 16**
17. (a). Write down the scope & importance of biotechnology. **Unit 17**
(b). Write down the application of fermentation. **Unit 17**
18. (a). Write down the achievements of genetic engineering. **Unit 17**
(b). What basic steps a genetic engineer adopts during the manipulations of genes. **Unit 17**
19. (a). Describe different sources of drugs. **Unit 18**
(b). Write a note on resistance against antibiotics. **Unit 18**
20. (a). Describe the mode of action of vaccines. **Unit 18**
(b). Drug addiction & associated problems. **Unit 18**