



ultimate tutorial

Subject: BIOLOGY

Branch: Head Office

Date: 03-Feb-2020

Marks: 70

SECTION - A

- 1 Secondary nucleus is also known as 01
[a] Generative nucleus [b] Tube nucleus
[c] Definitive nucleus [d] Primary endosperm nucleus
- 2 Removal of large pieces of floating debris, oily substances etc. during sewage treatment is called 01
[a] primary treatment [b] secondary treatment
[c] final treatment [d] amplification
- 3 The bonds joining two successive nucleotides of DNA strand are called 01
[a] phosphodiester bond [b] hydrogen bond
[c] covalent bond [d] glycosidic bond
- 4 Bacteriophage M 13 is with 01
[a] ssDNA [b] dsDNA
[c] ssRNA [d] dsRNA
- 5 Which harmful radiations are absorbed by ozone layer? 01
[a] UV [b] X-ray
[c] visible light [d] gamma rays
- 6 Vector host of malaria is 01
[a] male culex mosquito
[b] female anopheles mosquito
[c] Aedes mosquito
[d] male anopheles mosquito.
- 7 Genetically engineered human insulin is obtained by inserting the gene in 01
[a] pancreatic cells.
[b] E.coli
[c] Agrobacterium tumifaciens.
[d] Drosophila melanogaster.
- 8 In a normal healthy person, normal blood glucose level is..... 01
[a] 45 to 98 mg per 100 ml of blood
[b] 200 to 300 mg per 100 ml of blood
[c] 5 to 10 mg per 100 ml of blood
[d] 500 to 600 mg per 100 ml of blood.

SECTION - B

- 1 Define Law of Segregation with the help of example. 02
- 2 Distinguish between retrotransposons and DNA transposons. 02
- 3 Write a note on Ramapithecus. 02
- 4 Write a short note on Heart Failure. 02
- 5 What is test cross? Explain the significance of test cross. 02
- 6 Give reason- Progesterone is called pregnancy hormone. 02
- 7 Draw neat labelled diagram of lateral view of human brain. 02
- 8 Distinguish between antigen and antibody. 02
- 9 "Poaching has made many animals endangered" Explain. 02
- 10 Write a note on meninges and give their functions. 02

SECTION - C

- 1 Write the floral adaptation of entomophily. 03
- 2 Distinguish between C_3 plants and C_4 plants. 03
- 3 Explain structure and function of spinal cord. posterior view of entire spinal cord. 03
- 4 Write a note on Nature of light and its role in photosynthesis. 03
- 5 What is co-dominance? Explain with the help of example. 03
- 6 Describe pulmonary and systemic circulation of blood. 03
- 7 Describe in detail the composition of human blood. 03
- 8 What are Palindromes in DNA? Give example. 03
- 9 Enlist the methods employed in animal breeding. 03

SECTION - D

- 1 Describe process of transcription in protein synthesis. 05
- 2 Describe the development of endosperm in Angiosperms. 05
- 3 Describe the structure of anatropous ovule with the help of a neat labelled diagram. 05