

## SSLC TOP TEST SERIES

Biology

Time : 45 Mnts

Score : 20

KP  
Std. 10(Type - A) (Chap. 5 to 8)

## Instructions :

- The first 7 minutes is cool - off time
- This time is to be spent for reading the questions paper
- You are not supposed to write anything during the cool - off time
- Read the instructions carefully and attempt the questions

**Question 1 to 5, Answer any four. Each carries one score.****1x4 = 4**

1. Correct mistake if any in the underlined part of the sentence  
Ophthalmology is the specialisation related to the treatment of cancer.
2. Analyse the relation between the words of the first pair and add the missing word of the second pair.  
AB positive blood : no antibody :: ..... : No antigens
3. Mention the ratio between the dominant and recessive traits in the second generation pea plants.
4. Which are the alleles present in the first generation tall plants.  
a. TT, b. Tt, c. T, t, D. T, T
5. Mention the most primitive member of the human race.

**Question 6 to 9. Answer any three. 2 scores each.****3x 2 = 6**

6. Write the characteristics of hominoidea with 2 eggs:
7. What are the tools used for the following purposes
  - a. Cutting of Insulin gene
  - b. Joining of insulin gene with plasmid
8. Which are the base pairs seen in DNA
9. Compare ECG with EEG

**Questions 10 to 12, Answer any two. 3 scores each.****2x3 = 6**

10. Antibodies destroy pathogens in different ways. Analyse this statement.
11. Mention the names of proteins used for the treatment of following diseased conditions
  - a. pain
  - b. Diabetes
  - c. Viral diseases
12. Write the chromosomal similarities and dissimilarities between male and female gamets
13. Mention the simple and complex organic molecules formed during the course of chemical evolution for origin of life.

**1x4 = 4**

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Ophthalmology

## Type - B

1x4 = 4

Question 1 to 5, Answer any four. Each carries one score.

1. Correct mistake if any in the underlined part of the sentences.  
Monkey is coming under Hominoidea
2. Analyse the relation between the words of the first pair and add the missing word of the second pair.  
Acquired variation : Lamarck Mutation : .....
3. Major share of human DNA includes  
a. Functional genes, b. Junk genes, c. Jumping genes, d. Protein coding genes.
4. Which are the alleles present in the first generation round seeded plants for the shape of the seed.
5. Write the name of polysaccharide that formed in the cellwall prevents the entry of germs through cell membrane.

Question 6 to 9, answer any three. 2 scores each.

3x2 = 6

6. Predict the after effect if AB group blood transfused to the person who has B group blood.
7. Fertilization causes variations in the next generation. How?
8. Vector has great role in genetic engineering. Analyse this statement?
9. List the characteristics of homo erectus.

Questions 10 to 12. Answer any two. 3 scores each.

2x3 = 6

10. Bacteria and human beings are evolved from a common ancestor. Substantiate this statement with the evidence from biochemistry and physiology.
11. Mention the diseased conditions those are treated with following proteins.  
a. Somatotropin  
b. Endorphins  
c. Interferons

12. Write any three after effects of careless usage of antibiotics

13. Illustrate the four nucleotides present in RNA.

4 score

*Thymine, Adenine*

