

## SSLC EXAM 2018 - BIOLOGY KEY

1. Autosomes.
2. c
3. Gene Mapping
4. Oxygen.
5. Amino acid  
• Bobbycol, Civeton
6. Amino acid
7. Nucleotide  
• A - phosphate  
• B - Nitrogen base
8. Mucus - prevents entry of germs into lungs  
cilia - traps of dust in trachea.
9. Avoid situation lead to multiplication of pathogen and vector -  
Importance of dry day  
Keep surroundings clean.
10. (a) Epilepsy  
(b) Irregular flow of electric charges in brain.
11. destroy useful bacteria.  
decreases quantity of some ~~useful~~ vitamins.
12. a) restriction endonucleases  
b) ligase.
13. a) 1, 3.  
b) sickle cell anaemia.
14. a) cross section of spinal cord.  
b) A - Dorsal root c - central canal  
B - Ventral D - grey matter.

15. Auxin - promoting growth of terminal buds  
 Gibberellin - stimulate breakup of food  
 Ethylene - helps in ripening of fruits  
 Abscisic Acid - control wilting of leaves.

16. panspermia theory

life has originated in  
 some other planet in universe  
 organic substances identified  
 in meteors supports this  
 theory.

chemical evolution.

changes occurred in  
 chemical substance in  
 water under specific  
 condition of the earth  
 life originated in the ocean.

17. a) TT  
 b) tt  
 c) Tt  
 d) Tt

(ii) 3-Fall, dwarf-1

18. Lignin - provide rigidity to cell wall.  
 Callose - prevent entry of germs which have crossed  
 the cell wall through cell membrane.  
 Cuticle - defend against attack microorganisms.

19. a) environmental factors  
 Smoking  
 radiation  
 virus  
 hereditary factors

20. A - Aqueous humor  
 B - Vitreous humor  
 C - Conjunctiva - secretes mucus which protects  
 the anterior portion of eyeball.  
 from being dry.

tears - clean and lubricate the anterior part of eyeball  
lysozyme, enzyme in tears destroy germs.

21. Cataract - lens become opaque - lens replacement.  
Glaucoma - increase in pressure - <sup>Pre-</sup> ~~Pre-~~ <sup>laser</sup> containing vitamin  
Laser surgery.  
Conjunctivitis - infection - hygiene  
Xerophthalmia - cornea become dry & opaque - <sup>laser</sup> ~~laser~~ <sup>pre-</sup> ~~pre-~~ <sup>laser</sup> containing  
Vitamin A

22. a) Regulate functions of other gland, immense  
significance to endocrine system.  
b) ACTH - Activity of adrenal cortex (stimulate)  
TSH - Stimulate activity of thyroid.  
c) GH - Testosterone  
Oestrogen  
progesterone.

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