S S L C EXAMINATION, MARCH 2014

BIOLOGY ANSWER KEY

		Total Score: 40
1.	a) Cone cells	1
	b) Eye spot	1
	c) Ammonia	1
2	a) EEG: Related with the treatment of hea	art diseases 1
	b) Uracil: Nitrogen bases in DNA	1
3	a) AIDS	1/2+1/2
	b) Unsterilized needles used by an AIDS pat present.	ient contain blood in which HIV is
4	Super bugs are created by genetic engineering. It are combined together and produced super bugs	
5	i) Parkinson disease	1
	ii) Deficiency of a neurotransmitter – dopan	nine. 1
6	Gibbon \longrightarrow Orang-utan \longrightarrow Goril	la> Chimpanzee 2
7	Ear canal \longrightarrow Eardrum \longrightarrow Ear o	essicles> 2
	Oval window> Cochlea> Audi	tory nerve
8		3

Down syndrome	Turner syndrome
47 Chromosomes	Dwarfness
45 + XX/XY	44+ X
Mental Retardation	Female Character

9 (1+2)

- a) Phagocytosis
- b) i) Neutrophil near the bacterium
- ii) Forms pseudopodia
- iii) Engulf the bacterium into cell
- iv) Get digested inside the cell.

10 a) Season 3

1

b) Vasopressin (ADH)

1

- c) It regulates the reabsorption of water from the kidney tubules according to the body demand.
- 11 a) Afferent Vessel and Efferent vessel (1+2)
 - b) Increases the blood pressure in glomerulus and enhances ultrafiltration.

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- a) After each generation resistance to DDT increases, ie. variation increases.
- b) It is an example for Darwin's theory of Natural selection. Due to struggle for existence variations will arises and transmitted into next generations.
- c) The total population become resistant to DDT.

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Disease	Pathogen	Mode of transmission
Chicken pox	Virus	Air
Filariasis	Filarial worm	Culex Mosquito
Cholera	Bacteria	Food and water
Malaria	Plasmodium	Anopheles Mosquito

OR

- a) Dengue Fever
- b) Blood platelet count decreases and internal bleeding
- c) Two posters

14	a)	4
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x) Dwarfism 1) Became dwarf due to stunted growth of bones

y) Gigantism 2) Growing tall with heavy body

z) Acromegaly 3) Enlargement of internal organs and thickening of bones.

b) The hormones which stimulate glands for secreting their hormones are tropic hormones.

OR

Oxytocin – Vasopressin Secreted by Hypothalamus

Thyroxin – Calcitonin Secreted by Thyroid gland

Adrenaline – Cortisol Secreted by Adrenal Gland

Insulin – Glucagon Secreted by Islets of Langerhans

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a) i) Cerebellum – co-ordinating muscular activities.

- b) ii) Medulla oblongata Controls breathing.
- c) lii) Cerebrum centre of intelligence.

Prepared By

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HSA

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