

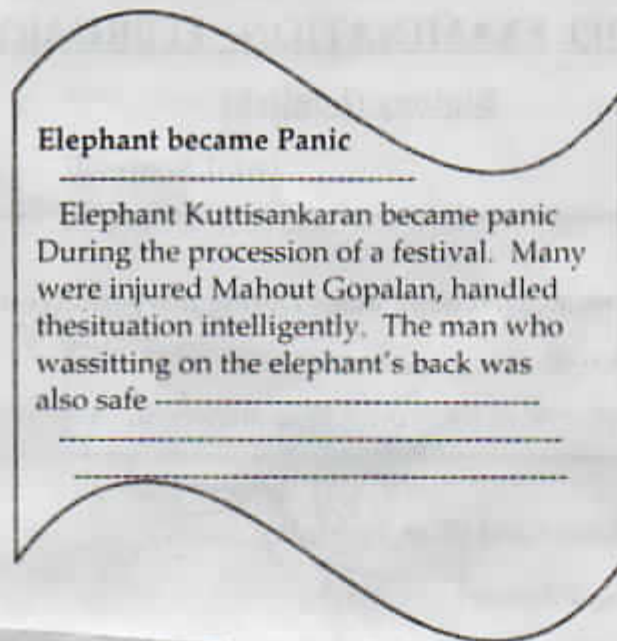
**SSLC MODEL EXAMINATION - FEBRUARY 2015****Biology (English)****Time :1½ Hours.****Total Score:40****Instructions :**

- First 15 minutes are allowed as 'cooloff' time. During this period read and comprehend the questions well.
- For choice questions only one of them need to be answered.

**Score**

- Find out 'word pair relation' and fill in the blanks. [2]
  - Cerebellum : Equilibrium  
----- : Functions as the relay station of impulses
  - Super bugs : Dr. Anand Mohan Chakrabarty  
Penicillin : -----
- Find the odd one. Write down the common features of the others. [2]
  - Auxins, Abscisic acid, Ethylene, Ethyphon.
  - Nephron, Nephridia, Neuron, Malpighian tubule
- Choose the correct answer from the bracket. The term 'gene' was given to [1] hereditary factors by  
(Johannsen, Avery, Francis Crick, Marshall Nirenberg)
- Some Indications of a disease are given below. [1]
  - Loss of complete memory, even the memory regarding the day, date etc.
  - The patient becomes unaware of his actions.
  - It is common among aged people.
  - Identify the disease.
  - How is it caused ?
- "In smokers the ability of blood to receive oxygen is low" [2]
  - What is the reason for this?
  - Name any two toxic substances present in tobacco?

6. Observe the news paper cutting and find out answers for the questions. [2]



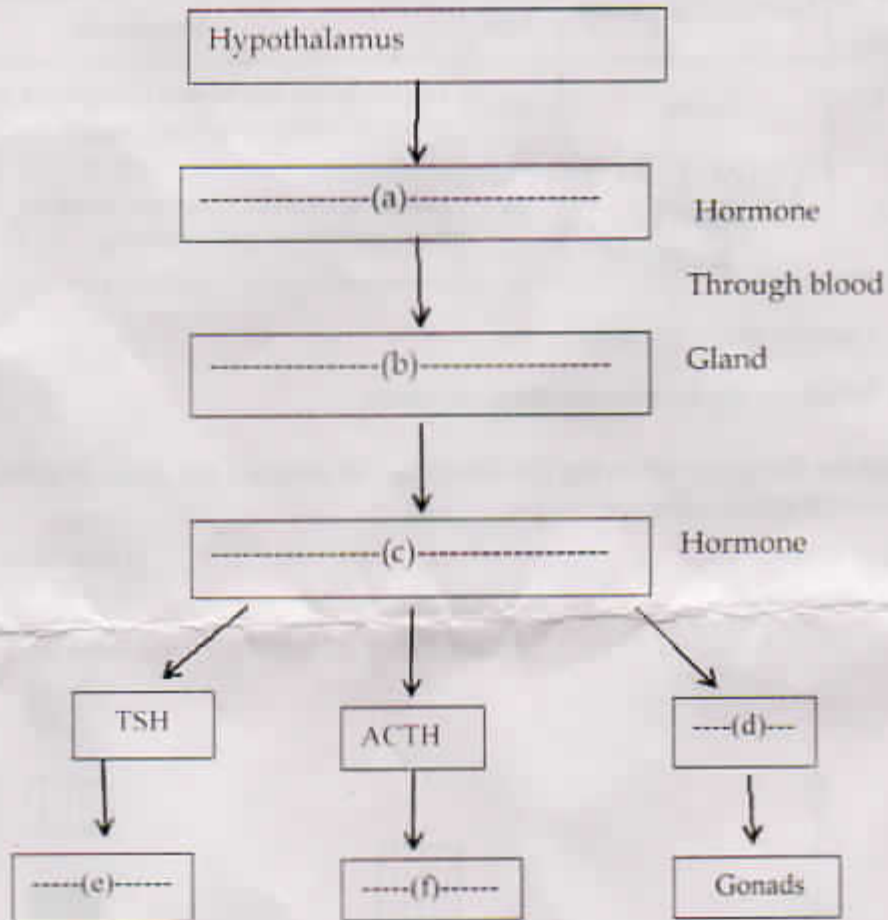
- (a) Write any two sudden Physiological changes that occurred in the crowd involved in the procession at that time.
- (b) What may be the Physiological changes that occurred in the man after getting down from the back of the elephant after the incident. (Write any two)
7. "Earlier mosquitoes could be controlled effectively by using mosquito coil. But now it is not so. Perhaps mosquito coils do not have the quality they had earlier or the mosquito must have become so strong to overcome repelling effects of the coils." Explain the confusion Balu's grandmother had on the basis of Darwin's theory. [2]
8. Rearrange B and C according to the data given in A. [3]

A Hormone	B Target Site	C Function
TSH	Liver, muscles, lipid tissues	Waterloss is controlled
Glucagon	Kidneys	Increases the rate of metabolism
Vasopressin	Thyroid Gland	Increases blood glucose level when it is lowered.
	Most of the body tissues	Stimulates Thyroid gland.

[P.T.O.]

OR

Complete the given flowchart.



9. Observe the words given below, sort them and make a table with [4] suitable titles.

*a - vaccine*  
*b - disease*

BCG	a	TT	a
Small Pox	b		
Salk Vaccine	a	Tuberculosis	b
Cowpox virus	a	Polio	b
		Tetanus	b

[P.T.O.]

10. "More sweetness is experienced while tasting toffee with tip of the tongue." Suggested Rani. Do you agree with this suggestion? Justify your suggestion. [2]

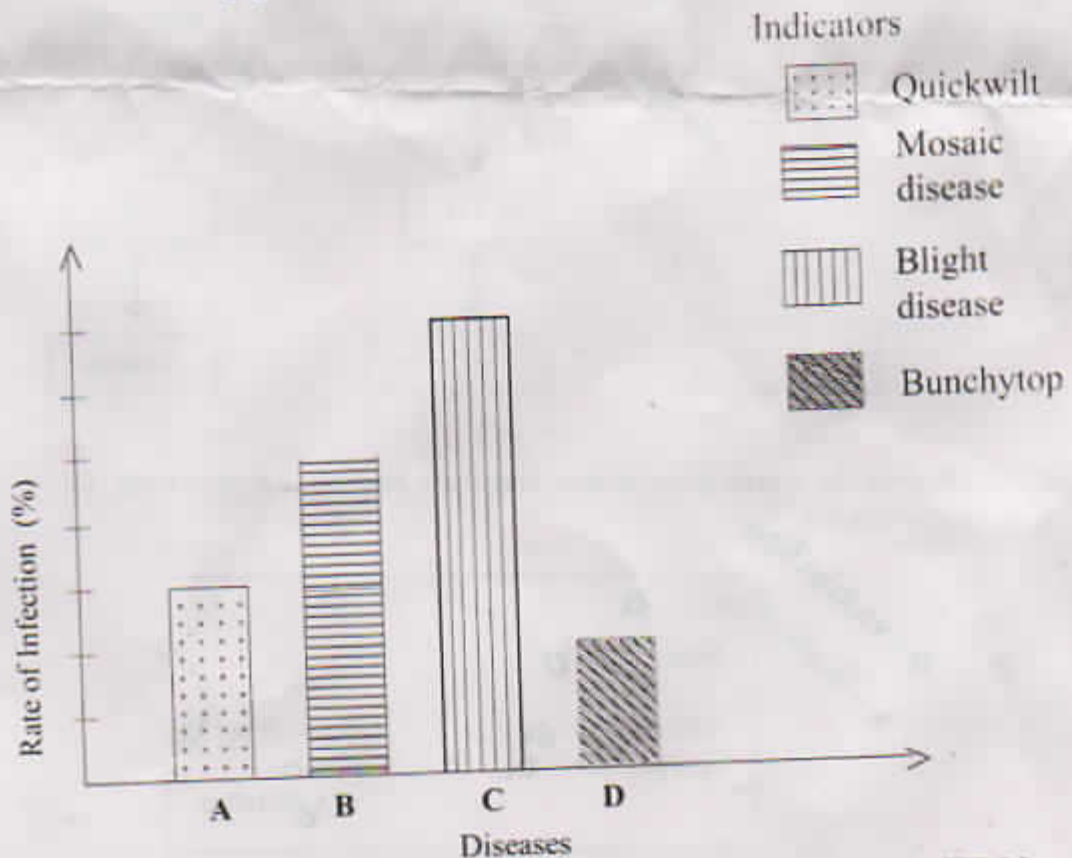
11. Examine the case sheet given below. [3]

Sl. No.	Name of the patient	Age	Symptoms
1	Radha	52	Dark colored and turbid urine, back pain and fever, swelling of the face, ankles and feet
2	<i>Kidney stone</i> Geetha <del>Kidney stone</del>	61	Pain in the lower abdomen, urinary block, back pain, giddiness and vomiting.

a) Identify these diseases.

b) What are the reasons for these diseases.

12. Analyse the graph showing the diseases that affected the crops in John's - field and answer the following questions. [4]



[P.T.O.]

- a) Identify the Most affected crop based on the inference on most prevalent disease.
- b) Name the causative agents of the diseases A and C.
- c) Which type of insects spread the disease B and D.

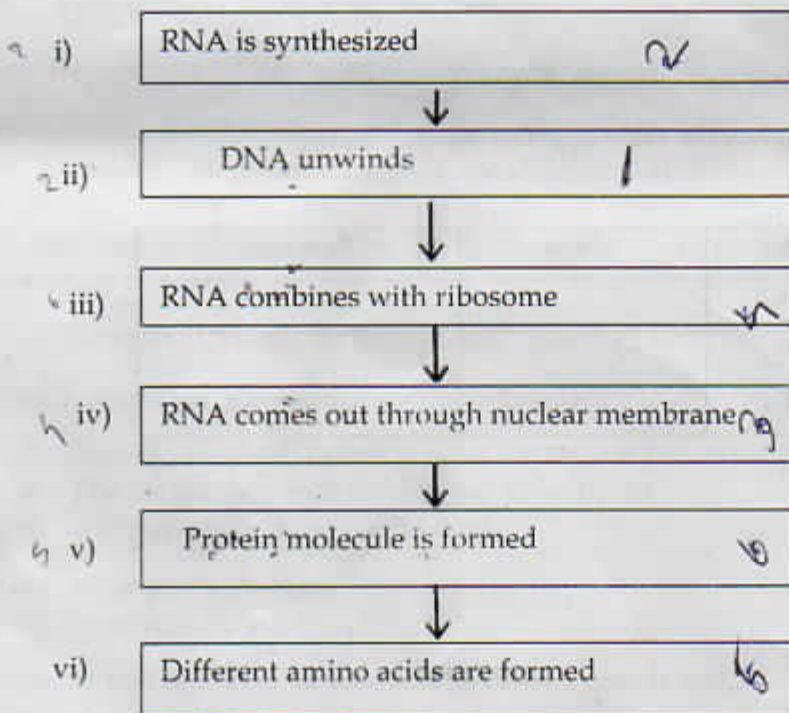
13. The result of the blood test of a person is given below. Analyse and answer the questions. [2]

Glucose : 290 mg/100 ml  
Calcium : 11 mg/100 ml

- a) Identify the affected disease.
- b) Name the hormone related to this disease.
- c) What is the reason for this disease?

14. "Main interferes with the evolutionary process keeping nature aside." [3]  
Evaluate this statement and justify.

15. Observe the flow chart given below. [4]



[P.T.O.]

- a) Arrange the flow orderly.
- b) Identify the process

16. Observe the diagram

[4]



- a) Redraw and label the diagram.
- b) Complete the table appropriately.

Part	Name	Function
A ✓		
B ✓		
C		

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