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Biology Science Questions for CDS Exams

Biology Quiz 4

Direction : Study the following question carefully and choose the right answer.

1. Consider the following

Enzymes and protein can be correlated with each other in the following ways

1. All proteins are enzyme.
2. All enzymes are protein.
3. All enzymes are not protein.
4. All proteins are not enzyme.

Which of the above are correct?

- A. 1 and 3 B. 2 and 4 C. 1, 2 and 3 D. 2, 3 and 4

2. Consider the following statements regarding respect of thyroid gland.

1. It is situated in the neck.
2. It is vital to maintain of normal body temperature.

Which of the statements given above is/are correct?

- A. Only 1 B. Only 2 C. Both 1 and 2 D. Neither 1 nor 2

3. Which one of the following is not a constituent of biogas?

- A. Methane B. Carbon dioxide C. Hydrogen D. Nitrogen dioxide

4. A mother of blood group O has a group O child. What could be the blood group of father of the child?

A. Only O B. A or B or O C. A or B D. Only AB

5. What does sphygmomanometer measure?

A. Blood pressure B. Velocity of fluids C. Temperature

D. Curvature of spherical surfaces

6. Which one of the following causes the chikungunia disease?

A. Bacteria B. Helminthic worm C. Protozoan D. Virus

7. Which one of the following vitamins is abundant in guava fruits?

A. Vitamin-A B. Vitamin B12 C. Vitamin-C D. Vitamin-D

8. Which one of the following vitamins helps in clotting of blood?

A. Vitamin-A B. Vitamin -B6 C. Vitamin-D D. Vitamin-K

9. Which one of the following glands in the human body stores iodine?

A. Parathyroid B. Thyroid C. Pituitary D. Adrenal

10. Which of the following diseases are preventable by vaccine?

1. Tetanus

2. Polio

3. Leprosy

4. Pertusis

Select the correct answer using the code given below

A. 1 and 3 B. 2 and 4 C. 1, 2 and 4 D. All of these



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Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	C	D	B	A	D	C	D	B	B

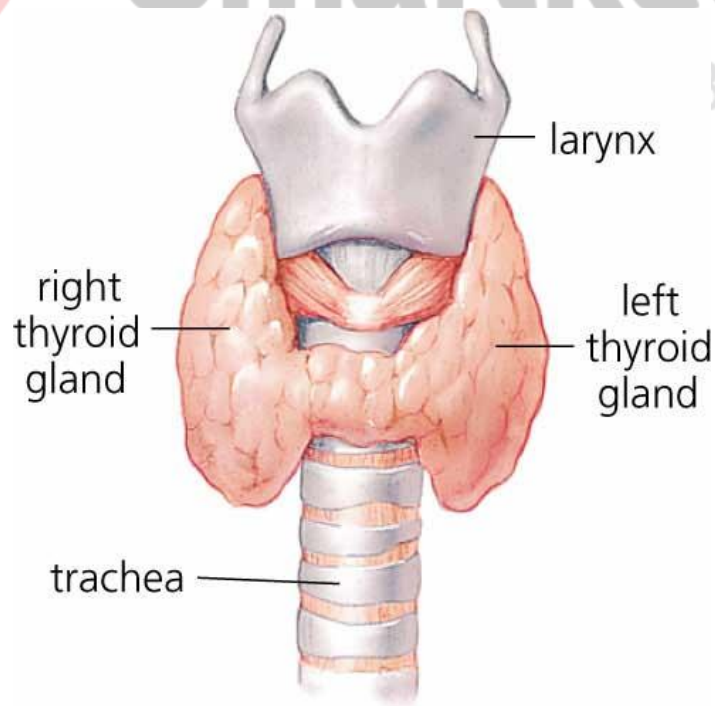
Explanations:

1.

An enzyme is defined as a catalytic protein, meaning a protein which catalyzes a chemical reaction. However, not all proteins catalyze chemical reactions. Some have structural or mechanical roles. Therefore, all enzymes are protein in nature but all proteins are not enzymes.

2.

Thyroid gland is one of the largest endocrine glands which is found in the neck. It is known to control body's metabolism, temperature appetite, muscle strength, etc.



Carlyn Iverson

3.

Nitrogen dioxide is not a component of biogas. The main components of bio gas are methane, carbon di oxide and hydrogen.

4.

Father of the child could be A or B or O.

father	mother			alleles	blood type
	A	B	O		
A	AA	AB	AO	A+A = A	A+O = A
B	BA	BB	BO	A+B = AB	B+B = B
O	OA	OB	OO	B+O = B	O+O = O

5.

Sphygmomanometer measures the blood pressure. It is composed of an inflatable cuff to restrict the blood flow and a mercury or manometer to measure pressure.



6.

Chickungunia is a viral disease caused by chickengunia virus which is an insect borne virus of genus Alphavirus. Symptoms include high fever, maculopapular rash, headache, etc.

7.

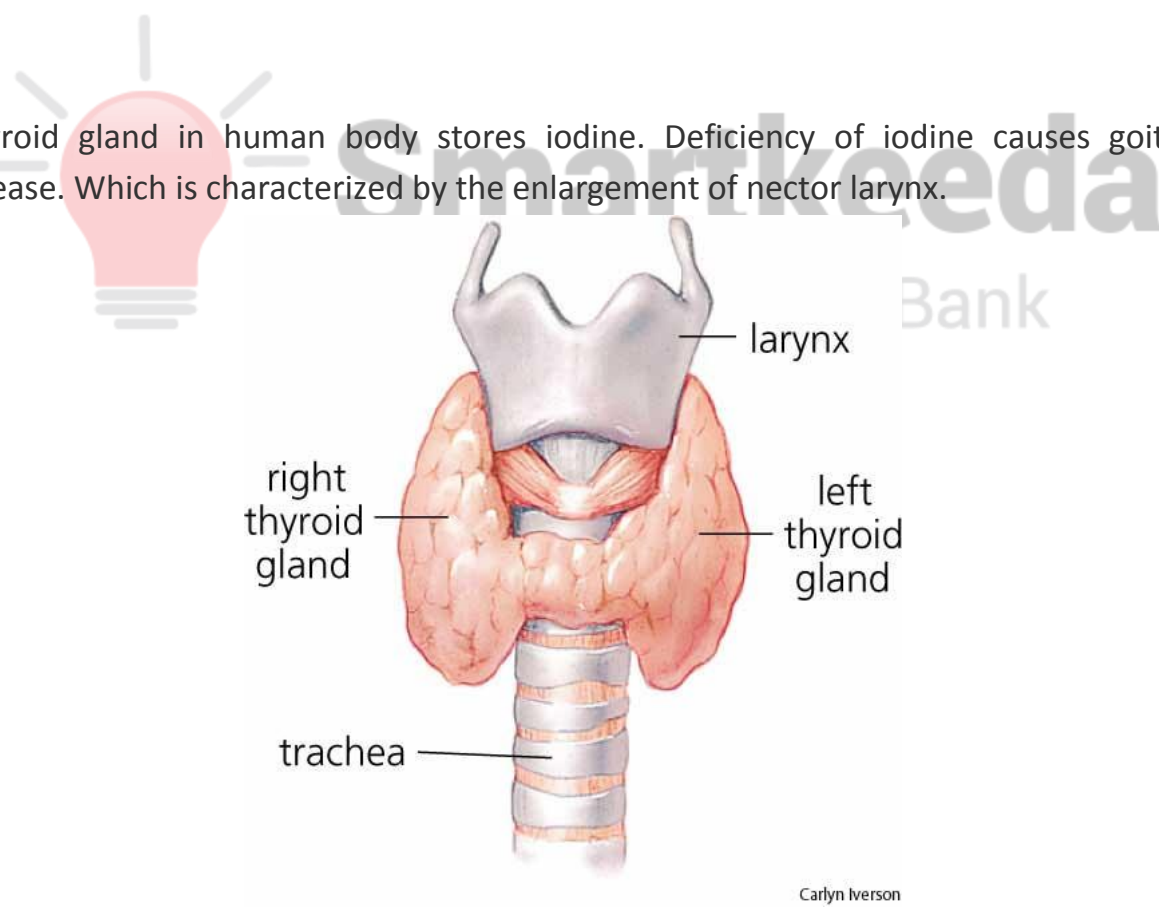
Vitamin-C is abundant in guava fruits. Vitamin-C aids in strengthening of immunity, serve as an antioxidant and relives hypertension too.

8.

Vitamin-K helps in clotting of blood. Vitamin-K serves as an essential cofactor for factor-II, VII, IX and X and also for proteins Z, C and S.

9.

Thyroid gland in human body stores iodine. Deficiency of iodine causes goitre disease. Which is characterized by the enlargement of nector larynx.



10.

Polio and pertusis are viral diseases. So, these can be prevented by vaccines.



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