



Endo – biochem

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Lecture 1

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metabolism-lecture (##)

1) Which of these responses convert dopa to norepinephrine respectively :

- A- Tyrosine hydroxylase , aromatic amino acid decarboxylase.
- B- Tyrosine hydroxylase , dopamine beta hydroxylase.
- C- Aromatic amino acid decarboxylase , dopamine beta hydroxylase.
- D- Dopamine beta hydroxylase , N-methyltransferase.
- E- Aromatic amino acid decarboxylase , N-methyltransferase.

Answer: C

2) One of the following statements is incorrect regarding steroid hormones :

- A- Play important in carbohydrate regulation
- B- Fewer different types than peptide hormones.
- C- Enzymes responsible for synthesis of it.
- D- Synthesized in mitochondria and ribosome
- E- All are lipid soluble and not stored in cells.

Answer: D

3) Steroid is?

- A) sterol nucleus with alkyl group of cholesterol
- B) sterol nucleus without alkyl group
- C) sterol nucleus with methyl group in ring c and d of cholesterol
- D) sterol nucleus with methyl in D ring

Answer: C

4) Peptides and protein hormones? Choose the wrong statement:**

- a. They are made from three to over 200 amino acids
- b. Are the most numerous hormones
- c. Most peptide hormones are water-soluble
- d. Their synthesis requires gene transcription
- e. Their secretion does not require stimulation

Answer: e*

metabolism-lecture (#)

1) Steroids are:**

- a. They are synthesized from epinephrine and involved in the synthesis and transmission of peptides, proteins and neurotransmitters
- b. A type of cell membrane which is impenetrable but movable
- c. They are synthesized from cholesterol and play role in sexual development
- d. A type of exocrine cell responsible for producing sweat
- e. They are short and long chains of amino acids which facilitate physiological, biochemical and growth processes

Answer:c

6) catecholamine hormones synthesis, choose the wrong statement:

- a. Tyrosine hydroxylase converts tyrosine to DOPA
- b. Phenylethanolamine N-methyltransferase converts norepinephrine to epinephrine
- c. Aromatic amino acid decarboxylase converts dopamine to norepinephrine
- d. Epinephrine has one extra hydroxyl group and one methyl group than dopamine
- e. Conversion of epinephrine to norepinephrine occurs in the storage vesicles

Answer:c