

14) Insulin is secreted by *LS*

- A) Autocrine
- B) Merocrine
- C) Paracrine
- D) Exocrine
- E) Endocrine

15) What happens after binding between G protein with its receptor? 25

Activation

**1. The signal type between the cell and the ECM is:**

LS

- A) Juxtacrine**
- B) Autocrine**
- C) Endocrine**

**2. The farthest signaling mode is:**

LS

- A) Autocrine**
- B) Paracrine**
- C) Endocrine**

**Answer: A**  
**and could be paracrine**

LS

**9. Long-distance signaling is also called?**

- A) endocrine signaling**
- B) Autocrine signaling**
- C) paracrine signaling**
- D) Juxtacrine signaling**

1. Which of the following will enter directly the cell membrane :

insulin

glucagon

histamine

testosterone\*

لک

2. which of the following is not 2nd messenger :

cAMP

cGMP

cATP\*

لک

3. In which receptor does dimer form?

Answer: receptor tyrosine kinase\*

4. Process in which signal converted to response..... بما معناه

Signal transduction\*

signal translation

signal .....

5. Inflammation will release hormone locally transferring...?

paracrine

لک

لک

لک

**25. When the ligand bind to the ligand site, the hydrophilic bind to -----  
,and the hydrophobic bind to -----?**



**8- When ligand bind to G protein coupled receptor:**

LS

A. activate G protein

B. Change cAMP to ATP

C. Inactive G protein

**Answer : a**

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**Answer : a**



**10- The correct match:** 25

A. neurotransmitter → paracrine

B. long distance → endocrine

C. short distance → intracrine

D. cancer activation → gap junction

Answer : B

**11- The second messenger:** 25

A. Na ions

B. claudins

C. CAMs

D. cAMP

Answer : D

## 16-Inflammation response:

١٦

A- Juxtacrine

B-Paracrine



C-Synapse

D-autocrine

Answer : B

**49-Insulin hormone is an example of :**

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Answer : (Endocrine)

۵۰ D. ... ..

**24-When the liganded bind to receptor:** *LS*

Answer : G activated

**18- 2ad messenger:**

LS

Answer : Camp

11

2-what of these are false about protein kinase? **LS**

=it is as second messenger

3-what of these are true about G-protein coupled receptors? **LS**

=activated when disconnect GDP

4-tyrosine kinase receptors? **LS**

=enzyme-linked receptors

5-ligand-gated ion channels?

LS

=???

(اتوقع polar شي فيه)

6- hydrophilic ligands = transmembrane receptors

LS

hydrophilic ligands = intracellular receptors

7-long-distance ligand= endocrine

LS