

Course No:
Course Title: Nutritional
Biochemistry
Date: 12/03/2018
No. of Questions: (4)
Time: 1hours
Using Calculator (No)

University of Palestine



1st Exam For 2nd Sem.
2017/2018
Total Grade: 40

Instructor Name: _____
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Question One: Choose the correct answer

10 marks

- 1- ----- lipase may be especially important for infant nutrition,
A- Gastric B- Lingual C- Pancreatic D- Salivary
- 2-, which is secreted from the G cells located in the antrum of the stomach, provokes the parietal cells to secrete gastric acid.
A. Gastrin B- Secretin C- CCK D- Pepsin
- 3- The ----- does not seem to produce a rise in the levels of gastrin and CCK.
A- Chemical phase B- Cephalic phase C- Feedback phase D- Inhibitory phase
- 4- Chronic elevation of gastrin may occur, in humans, in a disease called ----- .
A- Sickle anemia B- Hemolytic anemia C- Pernicious anemia D- B & C
- 5- ----- catalyzes the activation of trypsinogen, which begins a cascade of events resulting in the activation of all the pancreatic enzymes.
A- Bicarbonates B- Phosphates C- Gastric acid D- Enterokinase
- 6- The activation of----- is thought to occur by two different mechanisms, intramolecular and intermolecular
A. Pepsinogen B- trypsinogen C- Chymotrypsinogen D- Secretin
- 7- The _____secrete pepsinogen.
A- Parietal cells B- Gobelt cells C-Acinar cells D- chief cells
- 8- is concentrated in specific regions in the brain, where it acts locally to control the appetite
A- CCK B. levulinc acid C. GABA D. Ghrelin
- 9- is the fructose transporter
A. GLUT-1 B. GLUT-2 C. GLUT-5 D. GLUT-7
- 10- Activity of pancreatic lipase is stimulated by a small protein called -----
A- Apo A B- Apo B C- Colipase D- A & B

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Question Two: 1- Match the with the suitable answers

10 Marks

| | | | |
|-----|--|--|------------------|
| 1- | The production of ----- is 2-4 grams daily, while the requirement is about 30-40 gram s daily | | colipase |
| 2- | One of the gastric glands responsible for secretion large amounts of mucus are -----. | | Trypsin |
| 3- | This bile salt layer limits the accessibility of the fat to pancreatic lipase, but ----- overcomes this problem by anchoring lipase to the fat globule | | Secretin |
| 4- | ----- (also called oxyntic cells) secrete a solution containing 0.1 N hydrochloric acid and intrinsic factor | | Taurine |
| 5- | ----- microscopic particles with large cores of lipid coated with a thin shell of protein. | | Endocytosis |
| 6- | Pepsin is not specific in its site of action, on the other hand,----- is quite specific which act on the arginine and lysine residues. | | goblet cells |
| 7- | Vitamin B12 appears to be unique among most of the nutrients, because it is taken up by the process of-----. | | transcobalamin |
| 8- | The effects of ----- on the pancreas require the presence of CCK. The two hormones appear to act synergistically | | Parietal cells |
| 9- | The complex of vitamin B12 and ----- circulates in the bloodstream to be absorbed by various organs of the body. | | Intrinsic Factor |
| 10- | ----- is found in animals and thus in animal foods and attachment to bile salts | | Chylomicrons |
| | | | Bile salts |
| | | | Glycine |

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2- Draw and explain the feedback loop of inhibition and the risk associated with the disturbance in this loop.

End of Questions

Good Luck