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### QUESTION 1

Which of the following decompose disaccharides into monosaccharides?

- A. salivary amylase
- B. pancreatic enzymes
- C. gastrin
- D. brush border enzymes

Correct Answer: D

Disaccharides such as sucrose, maltose, and lactose, etc., are broken down further into monosaccharides (primarily glucose) in the small intestine by way of brush border enzymes lining microvilli of the small intestine.

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### QUESTION 2

If 8 people can eat 6 bags of chips, how many people will it take to eat 15 bags of chips?

- A. 22
- B. 18
- C. 16
- D. 20

Correct Answer: D

Use a proportion to solve the problem.  $8/6 = x/15$ ,  $60 = 3x$ ,  $x = 20$ .

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### QUESTION 3

Find:

$$\lim_{x \rightarrow 2} \frac{x^2 - x - 4}{2x^2 + 4x + 5}$$

- A. -2/21
- B. 10
- C. -5/3
- D. 35

Correct Answer: A



$$\lim_{x \rightarrow 2} \frac{x^2 - x - 4}{2x^2 + 4x + 5}$$

$$\lim_{x \rightarrow 2} \frac{2^2 - 2 - 4}{2(2)^2 + 4(2) + 5}$$

$$\lim_{x \rightarrow 2} \frac{-2}{21}$$

#### QUESTION 4

In which of the following stages of embryo development are the three primary germ layers first present?

- A. Blastula
- B. Zygote
- C. Gastrula
- D. Coelomate
- E. Morula

Correct Answer: C

The gastrula is formed from the blastocyst, which contains a bilayered embryonic disc. One layer of this disc's inner cell mass further subdivides into the epiblast and the hypoblast, resulting in the three primary germ layers (endoderm, mesoderm, ectoderm).

#### QUESTION 5

How many sigma bonds does HCCH have?

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

Correct Answer: C

Recall that single bonds are always sigma bonds, double bonds consist of a sigma bond and a pi bond, and triple bonds contain one sigma bond and two pi bonds. HCCH contains 2 C-C bonds and 1 C-H triple bond. So, 2 C-H bonds gives 2 sigma bonds, and another sigma bond from the triple bond equals 3 sigma bonds.



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