

## Biochemistry Exam 1, 52 practice questions with correct answers

In a bacterial cell, the DNA is in the:

- A) cell envelope.
- B) cell membrane.
- C) nucleoid.
- D) nucleus.
- E) ribosomes. >>>nucleoid

A major change occurring in the evolution of eukaryotes from prokaryotes was the development of:

- A) DNA.
- B) photosynthetic capability.
- C) plasma membranes.
- D) ribosomes.
- E) the nucleus >>>the nucleus

In eukaryotes, the nucleus is enclosed by a double membrane called the:

- A) cell membrane.
- B) nuclear envelope.
- C) nucleolus.
- D) nucleoplasm.
- E) nucleosome. >>>nuclear envelope

The dimensions of living cells are limited, on the lower end by the minimum number of biomolecules necessary for function, and on the upper end by the rate of diffusion of solutes such as oxygen. Except for highly elongated cells, they usually have lengths and diameters in the range of:

- A) 0.1  $\mu\text{m}$  to 10  $\mu\text{m}$ .
- B) 0.3  $\mu\text{m}$  to 30  $\mu\text{m}$ .
- C) 0.3  $\mu\text{m}$  to 100  $\mu\text{m}$ .
- D) 1  $\mu\text{m}$  to 100  $\mu\text{m}$ .
- E) 1  $\mu\text{m}$  to 300  $\mu\text{m}$  >>>0.3  $\mu\text{m}$  to 100  $\mu\text{m}$

The bacterium *E. coli* requires simple organic molecules for growth and energy—it is therefore a:

- A) chemoautotroph.
- B) chemoheterotroph.
- C) lithotroph.
- D) photoautotroph.
- E) photoheterotroph >>>chemoheterotroph

Which one of the following has the cellular components arranged in order of increasing size?

# Biochemistry Exam Questions And Answers

**S Baum**



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$$\lim_{x \rightarrow a} x = a$$

$$\lim_{x \rightarrow a} x^n = a^n$$

$$\lim_{x \rightarrow a} c \cdot f(x) = c \cdot \lim_{x \rightarrow a} f(x)$$

$$\lim_{x \rightarrow a} f(x) \cdot g(x) = \lim_{x \rightarrow a} f(x) \cdot \lim_{x \rightarrow a} g(x)$$

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