

# BIOCHEM ACS STUDY GUIDE

Each of the following subcellular structures contains DNA EXCEPT

- A. the nucleus.
- B. ribosomes.
- C. chloroplasts.
- D. mitochondria. - Answer- B

In plant and animal cells, the three-dimensional integrity of the cell is maintained, in part, by an internal network of filaments called

- A. the cell wall.
- B. the Golgi apparatus.
- C. the cytoskeleton.
- D. the endoplasmic reticulum. - Answer- C

Of the following, which are prokaryotes?

- A. viruses
- B. bacteria
- C. yeast
- D. plant cells - Answer- B

$G^\circ$  for the conversion of glycerol-3-phosphate to glycerol + Pi is -2.2 kcal/mole. Thus, you can conclude that

- A. this reaction will occur spontaneously.
- B. this reaction may or may not occur spontaneously, depending on the actual concentrations of reactants and products.
- C. this reaction will only occur spontaneously if it is coupled to another reaction that has a more favorable  $G^\circ$ .
- D. this reaction is so strongly favorable that it could be coupled to drive an otherwise unfavorable cell reaction. - Answer- B

In most biochemical reactions,  $\Delta Pv$  is

- A. negligible
- B. positive
- C. negative
- D. dependent on  $\Delta E$  - Answer- A

# McKee Biochem Study Guide

**Patricia DePra, Trudy McKee, James R.  
McKee**

## **McKee Biochem Study Guide:**

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