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QUESTION 1

Which of the following answer choices incorrectly pairs the germ layer and the structure it gives rise to?

- A. Ectoderm – central nervous system
- B. Mesoderm – connective tissue
- C. Endoderm – liver
- D. Mesoderm – muscles
- E. Endoderm – lens of the eye

Correct Answer: E

The ectoderm is responsible for the formation of the lens of the eye. Know the basic structures these 3 germ layers give rise to.

QUESTION 2

The coexistence of solid, liquid and gas in thermodynamic equilibrium is called:

- A. Melting point
- B. Triple point
- C. Condensation point
- D. Equilibrium point
- E. Coexisting point

Correct Answer: B

This is indeed the definition of what a triple point is.

QUESTION 3

An mRNA strand has the following sequence: 5' CUAUUG 3'. Identify the DNA coding strand:

- A. 5' CAATAG 3'
- B. 5' GAUAAC 3'
- C. 5' CTATTG 3'
- D. 5' CUAUUG 3'
- E. 5' CGCTTA 3'



Correct Answer: C

The coding strand is the DNA strand that is not transcribed into mRNA. The coding strand is identical to the mRNA strand, except with T's instead of U's. The template strand (choice 5' CAATAG 3') is what gets transcribed into mRNA.

Understand the difference between coding and template strands as well as base-pair rules.

QUESTION 4

Which of the following molecules is thought to have acted as the first enzyme in early life on earth?

- A. Protein
- B. RNA
- C. Triglycerides
- D. Phospholipids
- E. DNA

Correct Answer: B

Some RNA molecules in extant organisms have enzymatic activity; for example, the formation of peptide bonds on ribosomes is catalyzed by an RNA molecule. This and other information have led scientists to believe that the most likely molecules to first demonstrate enzymatic activity were RNA molecules.

QUESTION 5

$\sin(30+50) = ?$

- A. $\cos 30 \sin 50 - \sin 30 \cos 50$
- B. $\cos 80$
- C. $\sin 30 \cos 50 + \cos 30 \sin 50$
- D. $\tan 80 - \cos 30$
- E. $2 \sin 30 \cos 50$

Correct Answer: C

$\sin(x + y) = \sin x \cos y + \cos x \sin y$

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