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QUESTION 1

Which of the following gives the correct order of electromagnetic radiation from the lowest frequency to the highest frequency?

- A. microwaves, UHF radio waves, x-rays, visible light
- B. UHF radio waves, microwaves, visible light, x-rays
- C. microwaves, visible light, x-rays, UHF radio waves
- D. microwaves, x-rays, visible light, UHF radio waves

Correct Answer: B

Radio waves have the lowest frequency and the longest wavelength. Microwaves also have low frequencies and long wavelengths compared to visible light. X-rays are highly energetic and have higher frequencies and smaller wavelengths than visible light.

QUESTION 2

A helicopter shines its light into the ocean at an incidence angle of 30° . What is the angle of reflection?

Assume index of refraction is $n = 1.33$ for water and $n = 1$ for air.

- A. 0°
- B. 15°
- C. 30°
- D. 60°
- E. Cannot be determined.

Correct Answer: C

This is a conceptual question that provides additional information to throw you off. Angle of incidence = Angle of reflection.

QUESTION 3

Juliet is on the physics portion of her OAT. It has 40 questions to be done in 50 minutes. She has completed 20 questions in 30 minutes. How much time does she have for each remaining question?

- A. 30 seconds
- B. 45 seconds
- C. 60 seconds



D. 90 seconds

E. 100 seconds

Correct Answer: C

Juliet has 20 questions remaining (40 total questions - 20 questions answered) with 20 minutes remaining (50 total minutes - 30 minutes used). Thus, she has 1 minute per question remaining.

QUESTION 4

Spermatogenesis occurs in which of the following?

A. Vas Deferens

B. Epididymis

C. Seminiferous tubules

D. Urethra

E. Ovum

Correct Answer: A

QUESTION 5

An enzyme without a co-factor is called:

A. Holoenzyme

B. Apoenzyme

C. Isoenzyme

D. Metalloenzyme

E. Coenzyme

Correct Answer: B

This is the definition of an apoenzyme. A holoenzyme is an apoenzyme plus the co-factor. Be aware of basic types of enzymes and their definitions.

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