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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

Primates are part which of the following classifications?

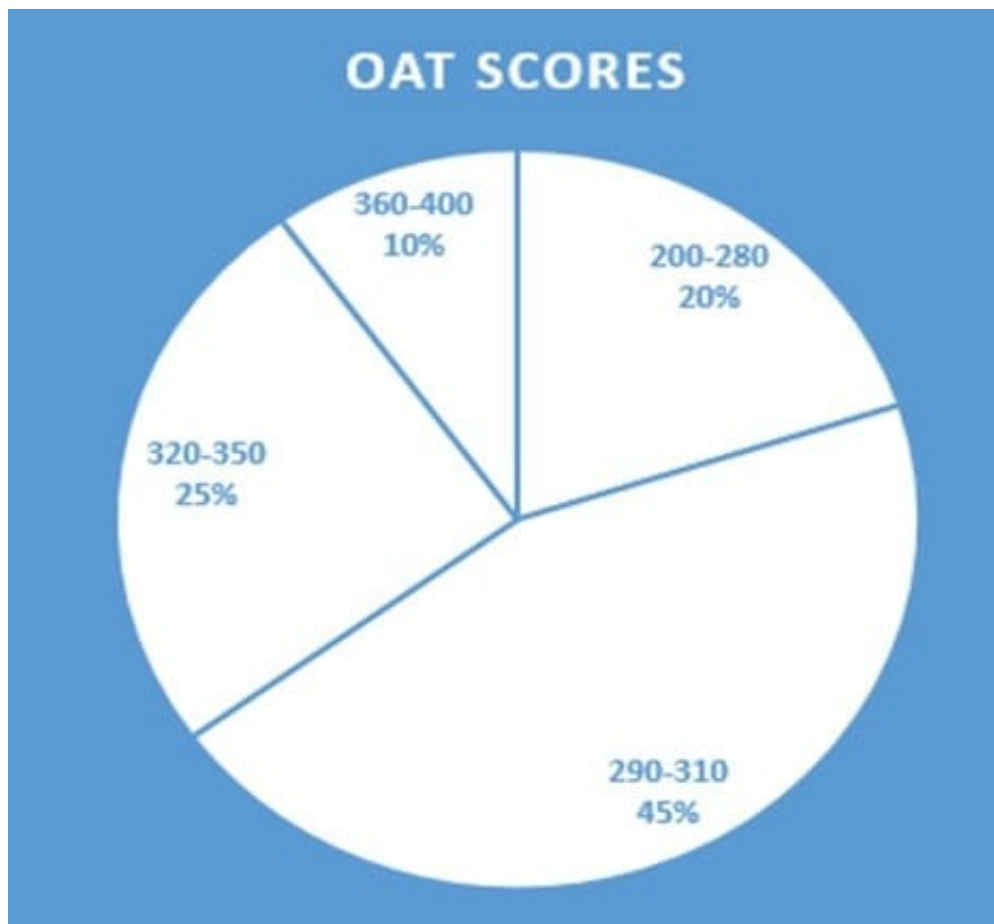
- A. Phylum
- B. Class
- C. Order
- D. Family
- E. Genus

Correct Answer: C

Primates are classified under order.

QUESTION 3

This figure represents the score range for 520 students who took the OAT. How many students scored 360 or more points?



- A. 52
- B. 104
- C. 130
- D. 234
- E. 240

Correct Answer: A

If 10% of test takers got a 360+ score, then find 10% of 520.

$$0.10 \times 520 = 52$$

QUESTION 4

Given the following reaction, how might one shift the equilibrium to the left? $\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \rightleftharpoons 2\text{NH}_3(\text{g})$

- A. Add $\text{N}_2(\text{g})$
- B. Add helium
- C. Decrease the pressure



- D. Remove $\text{NH}_3(\text{g})$
- E. Decrease the volume

Correct Answer: C

Decreasing the pressure shifts the equilibrium towards the side with more moles of gas. The left side has 4 moles of gas whereas the products has 2 moles of gas, thus the equilibrium will shift to the left. Adding an inert gas will not affect the equilibrium. The other options will shift the equilibrium to the right.

QUESTION 5

Which of the following phase changes leads to a positive change in entropy value?

- A. Fusion
- B. Melting
- C. Sublimation
- D. Vaporization
- E. All of the above

Correct Answer: E

All of the answer choices lead to a positive change of entropy value. Also note, Fusion and Melting are the same thing.

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