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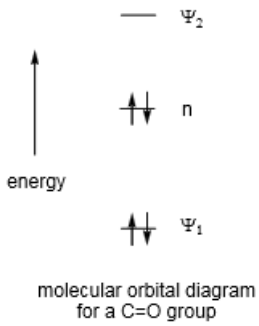
A carbonyl compound is known to absorb light at two different wavelengths A molecular orbital diagram for this compound is given below. Choose the correct electronic transitions that would be responsible for the long and short wavelength absorptions.



molecular orbital diagram
for a C=O group

- **(A)** The long wavelength absorption = n to Ψ2 and the short wave absorption = Ψ1 to Ψ2.
- **(B)** The long wavelength absorption = Î¨1 to Î¨2 and the short wave absorption = n to Î¨2.
- **(C)** The long wavelength absorption = n to Î¨1 And the short wave absorption = Î¨1 to Î¨2.
- **(D)** The long wavelength absorption = Î¨1 to Î¨2. and the short wave absorption = n to Î¨2.

VIDEO SOLUTION

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Todd's Test Prep
2255 Glades Road
Suite 324A
Boca Raton, Florida 33431
E-mail: help@orgoreview.com

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