ASSIGNMENT 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. 

Due on 2019-02-13, 23:59 IST.

1) Spacing between successive energy levels of a rigid rotor

- is same
- increases with increase in energy
- decreases with increase in energy
- goes through a maximum

No, the answer is incorrect.
Score: 0
Accepted Answers:
inincreases with increase in energy

2) Spacing between successive microwave spectral lines

- is same
- increases with increase in energy
- decreases with increase in energy
- goes through a maximum

No, the answer is incorrect.
Score: 0
Accepted Answers:
is same

3) Intensity of microwave spectral lines

- is same
- increases with increase in energy
- decreases with increase in energy
- goes through a maximum

No, the answer is incorrect.
Score: 0
Accepted Answers:
goes through a maximum

Essential condition for microwave activity is that the molecule must...
5) Microwave spectrum of a molecule, in absence of any external electric or magnetic field, can be used to determine

- bond length
- bond strength
- dipole moment
- molecular mass

No, the answer is incorrect.
Score: 0
Accepted Answers:
- bond length

6) Which of the following molecules show microwave activity?

- H₂
- HCl
- SF₆
- CH₃Cl

No, the answer is incorrect.
Score: 0
Accepted Answers:
- HCl
- CH₃Cl

7) The 1ˢᵗ rotational absorption of ¹²CO is found to occur at 3.8424 cm⁻¹, while that of ¹⁰CO is at 3.6734 cm⁻¹. Find x.

- 14
- 13
- 12
- 15

No, the answer is incorrect.
Score: 0
Accepted Answers:
- 13