- 1. The rotational structure of molecules is determined by:
- A. The number of atoms in the molecule
- B. The number of electrons in the molecule
- C. The number of protons in the molecule
- D. The number of neutrons in the molecule
- 2. The rotational structure of molecules is affected by:
- A. The number of atoms in the molecule
- B. The number of electrons in the molecule
- C. The number of protons in the molecule
- D. The number of neutrons in the molecule
- 3. The rotational structure of molecules is determined by the:
- A. Arrangement of the atoms in the molecule
- B. Arrangement of the electrons in the molecule
- C. Arrangement of the protons in the molecule
- D. Arrangement of the neutrons in the molecule
- 4. The rotational structure of molecules is affected by the:
- A. Arrangement of the atoms in the molecule
- B. Arrangement of the electrons in the molecule
- C. Arrangement of the protons in the molecule
- D. Arrangement of the neutrons in the molecule
- 5. The rotational structure of molecules is determined by the:
- A. Shape of the molecule
- B. Size of the molecule
- C. Mass of the molecule
- D. Charge of the molecule
- 6. The rotational structure of molecules is affected by the:
- A. Shape of the molecule
- B. Size of the molecule
- C. Mass of the molecule

- D. Charge of the molecule
- 7. The rotational structure of molecules is determined by the:
- A. Bonding of the atoms in the molecule
- B. Bonding of the electrons in the molecule
- C. Bonding of the protons in the molecule
- D. Bonding of the neutrons in the molecule
- 8. The rotational structure of molecules is affected by the:
- A. Bonding of the atoms in the molecule
- B. Bonding of the electrons in the molecule
- C. Bonding of the protons in the molecule
- D. Bonding of the neutrons in the molecule
- 9. The rotational structure of molecules is determined by the:
- A. Motion of the atoms in the molecule
- B. Motion of the electrons in the molecule
- C. Motion of the protons in the molecule
- D. Motion of the neutrons in the molecule
- 10. The rotational structure of molecules is affected by the:
- A. Motion of the atoms in the molecule
- B. Motion of the electrons in the molecule
- C. Motion of the protons in the molecule
- D. Motion of the neutrons in the molecule
- 11. The rotational structure of molecules is determined by the:
- A. Interaction of the atoms in the molecule
- B. Interaction of the electrons in the molecule
- C. Interaction of the protons in the molecule
- D. Interaction of the neutrons in the molecule
- 12. The rotational structure of molecules is affected by the:
- A. Interaction of the atoms in the molecule
- B. Interaction of the electrons in the molecule

- C. Interaction of the protons in the molecule
- D. Interaction of the neutrons in the molecule
- 13. The rotational structure of molecules is determined by the:
- A. Energy of the molecule
- B. Temperature of the molecule
- C. Pressure of the molecule
- D. All of the above
- 14. The rotational structure of molecules is affected by the:
- A. Energy of the molecule
- B. Temperature of the molecule
- C. Pressure of the molecule
- D. All of the above
- 15. The rotational structure of molecules is determined by the:
- A. Angular momentum of the molecule
- B. Magnetic moment of the molecule
- C. Electric dipole moment of the molecule
- D. All of the above
- 16. The rotational structure of molecules is affected by the:
- A. Angular momentum of the molecule
- B. Magnetic moment of the molecule
- C. Electric dipole moment of the molecule
- D. All of the above
- 17. The rotational structure of molecules is determined by the:
- A. Spin of the molecule
- B. Orbital angular momentum of the molecule
- C. Total angular momentum of the molecule
- D. All of the above
- 18. The rotational structure of molecules is affected by the:
- A. Spin of the molecule

- B. Orbital angular momentum of the molecule
- C. Total angular momentum of the molecule
- D. All of the above
- 19. The rotational structure of molecules is determined by the:
- A. Symmetry of the molecule
- B. Asymmetry of the molecule
- C. Polarization of the molecule
- D. All of the above
- 20. The rotational structure of molecules is affected by the:
- A. Symmetry of the molecule
- B. Asymmetry of the molecule
- C. Polarization of the molecule
- D. All of the above

Answer Key:

- 1. B
- 2. D
- 3. A
- 4. B
- 5. A 6. B
- 7. 1
- /. A
- 8. B 9. D
- 10. D
- 11. C
- 12. C
- 13. D
- 14. D
- 15. D
- 16. D
- 17. C
- 18. C
- 19. A 20. A