

10 • Orbital Hybridization & Molecular Orbitals

PRACTICE TEST

1. Which hybridization is associated with a steric number of 3?

- a) sp SN = 2
b) sp^2 3
 c) sp^3 4

- d) sp^3d 5
 e) sp^3d^2 6

2. The molecule BrF_3 has a steric number of 5 on the central atom?

- a) 3 b) 4 **c) 5** d) 6



3. What is the hybridization of Br in BrF_3 ?

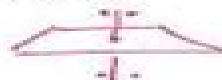
- a) sp
b) sp^2
 c) sp^3
d) sp^3d SN = 5
 e) sp^3d^2

4. How many equivalent sp^3d orbitals are there?

- a) 3 b) 1 **c) 5** d) 6

5. What type of hybridization is associated with a square planar molecular shape?

- a) sp^3
 b) sp^2
 c) sp
d) sp^3d^2
e) sp^3d



6. What shape for electron pairs is associated with sp^3d^2 hybridization?

- a) linear d) tetrahedral
 b) square planar **c) octahedral**
 e) bent



7. What hybridization is predicted for phosphorus in the PCl_3 molecule?

- a) sp^2
b) sp^3
 c) sp
 d) sp^3d^2



tetrahedral shape = pyramidal

8. A double bond contains 1 sigma bond(s) and 1 pi bond(s).

- a) 0, 2 b) 1, 2 c) 2, 0 **d) 1, 1**

9. What angle exists between orbitals in sp^3d^2 hybrid orbitals?

- a) 90.0°** d) 120.0°
 b) 180.0° e) 78.5°
 c) 109.5°



10. Which of the following elements is most likely to display sp^3d hybridization? SN = 5

- a) oxygen d) carbon
 b) nitrogen e) boron
c) phosphorus no d orbitals

11. How many sigma (σ) and pi (π) electron pairs are in a carbon dioxide molecule? O=C=O

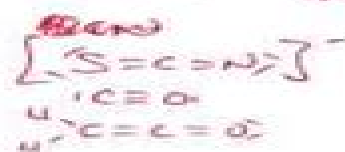
- a) four σ and zero π d) two σ and four π
 b) three σ and two π e) one σ and three π
c) two σ and two π

12. What is the hybridization of the oxygen atoms in CH_3OH and CO_2 , respectively? O=C=O

- a) sp^3 , sp^3 d) sp^2 , sp^2 SN = 3
 b) sp^3 , sp^2 e) sp^3 , sp sp^2
c) sp^2 , sp^2

13. All of the following species contain two π -bonds EXCEPT

- a) SCN^- 16 e⁻ d) OCS 16 e⁻
 b) CO 10 e⁻ **e) NO^+ 12 e⁻**
 c) H_2CCO 16 e⁻



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Thomas Griffiths



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Abstracts ,1988-12 *Handbook of CALL Teacher Education and Professional Development* Dara Tafazoli,Michelle Picard,2023-04-26 This comprehensive handbook provides an overview of current trends in computer assisted language learning CALL teacher education and professional development across the globe It highlights theories and practices in CALL teacher education and professional development in five sections such as English language teaching including pre service teachers in service teachers teacher educators material developers course designers and researchers It explores the role of CALL teacher education and professional development in many underexplored countries such as Africa Asia Eastern Europe and the Middle East It stresses the critical role of professional development programs from the use of technology in its generic sense The theoretical and empirical chapters in the book provide a more inclusive and comprehensive picture of various aspects of CALL teacher education and professional development globally It offers context specific approaches and strategies to language teachers and teacher educators It provides pedagogical implications and suggestions for promoting digital literacy and autonomy in online education This book provides valuable insights for researchers teacher educators and teacher trainers in applied linguistics

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