Unit 4 - Week 3

Week 3 Assignment 3

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

Due on 2019-08-21, 23:59 IST.

Week 3 Assignment 3

1) What is oxidation states of diiron in Oxyhemerythrin after forming diironhydroperoxo species? *1 point*

- 1,1
- 1,2
- 2,3
- 3,3

No, the answer is incorrect.
Score: 0
Accepted Answers:
3,3

2) What would be oxygen-oxygen stretch (in wave number) and bond distance (in Angstrom) for oxidized oxygen? *1 point*

- 1580, 1.21
- 1905, 1.12
- 1097, 1.12
- 1200, 1.33

No, the answer is incorrect.
Score: 0
Accepted Answers:
1905, 1.12

3) Oxyhemocyanine gives specific UV-Visible spectra at following wavelength. *1 point*

- 395
- 295
- 330
- 345

No, the answer is incorrect.
Score: 0
Accepted Answers:
345

4) What will be nature of this u-1,2-peroxo copper species? *1 point*

- Nucleophilic
- Electrophilic
- Neutral
- None

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

5) What is Fe-O-Fe stretch in deoxyhemerythrin? *1 point*

- 590
- 386
- 486
- 664

No, the answer is incorrect.
Score: 0
Accepted Answers:
486

6) In case of peptidylglycine alpha hydroxylating monooxygenase PHM it is not the C terminus backbone of the protein residue which is getting hydroxylated selectively by using the active copper oxygen species. *1 point*

- True
- False

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

7) Choose two correct statement. *1 point*

- According to Klinman's model, superoxo is active species in substrate hydroxylation
- According to Klinman's model hydroperoxo is active species in substrate hydroxylation
- According to Klinman's model copper superoxo species is abstracting the hydrogen atom which is key step in substrate hydroxylation
- According to Klinman's model copper hydroperoxo species is abstracting the hydrogen atom which is key step in substrate hydroxylation

No, the answer is incorrect.
Score: 0
Accepted Answers:
According to Klinman's model, superoxo is active species in substrate hydroxylation
According to Klinman's model copper superoxo species is abstracting the hydrogen atom which is key step in substrate hydroxylation

8) What would be distance (in Angstrom) between O-O bond in O_2^+ ? *1 point*

- 1.12
- 1.13
- 1.51
- 1.21

No, the answer is incorrect.
Score: 0
Accepted Answers:
1.12

9) Azidohemerythrine is active form of protein? True or False. *1 point*

- True
- False

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

10) Hr (Hemerythrin, Fe) is an O_2transport protein. True or False *1 point*

- True
- False

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