

Unit 8 - Week 6

Course outline

How does an NPTEL online course work?

Prerequisite Assignment

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

- Protein tertiary structure I
- Protein tertiary structure II
- Protein structure analysis - I
- Protein structure analysis II
- Protein structure analysis III
- PDB Demo

Quiz : Assignment 6

Quiz : Practice Assignment 6

Bio-Informatics:Algorithms and Applications : Week 6 Feedback Form

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Assignment 6

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

Due on 2020-03-11, 23:59 IST.

1) PDB structure file contains the information on

1 point

- Cartesian coordinates
- Polar coordinates
- Binding sites
- All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Cartesian coordinates

2) Temperature factors of more than 75 shows that the atom is

1 point

- Rigid
- Flexible
- Located in a fixed position
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Flexible

3) Pymol has the facility to

1 point

- Prepare publication quality figures
- Compute bond length, bond angle and torsional angle
- Identify the non-covalent interactions between amino acid residues
- All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All the above

4) Proteins containing alternate alpha helices and beta strands belong to

1 point

- All-alpha class
- All-beta class
- Alpha+beta class
- Alpha/beta class

No, the answer is incorrect.
Score: 0

Accepted Answers:
Alpha/beta class

5) The database containing the information on structural class is

1 point

- SCOP and DALI
- CATH and DALI
- SCOP and CATH
- DALI and PDB

No, the answer is incorrect.
Score: 0

Accepted Answers:
SCOP and CATH

6) Which method provides the information on both secondary structure and solvent accessibility?

1 point

- ACCESS
- NACCESS
- DSSP
- ASC

No, the answer is incorrect.
Score: 0

Accepted Answers:
DSSP

7) Which software provides ASA values in pictorial form?

1 point

- ACCESS
- DALI
- PDBSUM
- ASA View

No, the answer is incorrect.
Score: 0

Accepted Answers:
ASA View

8) Buriedness provides the information on the preference of residues in the

1 point

- Surface of the protein
- Interior of the protein
- Center of mass of a protein
- All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Interior of the protein

9) Long-range order is directly proportional to

1 point

- Long-range contacts
- All contacts
- Length of the protein
- All the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Long-range contacts

10) What is the surrounding hydrophobicity of Thr27, if it is surrounded by 2 Ala and 1 Val, 2 Thr, 2 Glu and 1 Ser? (The hydrophobicity values are A,C,G,M,Y:

1 point

1; F,I,L,V,W: 2; D,E,K,H,R: -2 and N,P,Q,S,T: -1)

- 1
- 3
- 0
- 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
-3