# Assignment 10

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

| Due on: 2020-04-08, 23:59 IST |

## 1. Choose the application of docking scores
- For a particular position of the ligand
- To reduce the degree of freedom
- To rank the active compounds
- All the above

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: All the above

## 2. Empirical scoring function depends on
- Least square fit between experimental affinity and computed parameters
- Force field of the method
- Bond length, bond angle and torsional angle
- Non-covalent interactions

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: Least square fit between experimental affinity and computed parameters

## 3. Which of the following depends on empirical-based scoring function?
- ZDOCK
- GOLD
- GLIDE
- PMF

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: GLIDE

## 4. Virtual screening is used to identify
- A drug
- Probable hit compounds
- The best compound with highest binding affinity
- Types of interactions between protein and ligand

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: Probable hit compounds

## 5. Comparison of physicochemical properties with known active compounds could reduce the initial dataset to
- 50% or less
- 40%
- 30%
- 20%

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: 50% or less

## 6. Q SAR is based on the notion that
- Activity is a function of structure
- Activity is a function of molecular properties
- Activity is a function of physical properties
- All the above

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: Activity is a function of molecular properties

## 7. I COS is
- Based on inhibition
- Based on interaction
- Balance between inhibition and similarity
- None of the above

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: Balance between inhibition and similarity

## 8. 2D-QSAR deals with
- Molecular properties
- Connectivity indices
- Similarity among structure
- All the above

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: Molecular properties

## 9. Data pre-processing involves
- Data cleaning
- Data transformation
- Feature selection
- All the above

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: All the above

## 10. If the Pearson’s correlation coefficient between the two sets of data is 0.5 then
- No correlation
- Positive correlation
- Random relationship
- Negative correlation

**Due Date:**
- No points awarded

**Description:**
- Accepted Answer: Positive correlation