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NPTEL

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## Unit 1 - How to access the portal ?

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Course outline

How to access the portal ?

- How to access the home page ?
- How to access the course page?
- How to access the MCQ, MSQ and Programming assignments ?
- How to access the subjective assignments ?
- Quiz : Week - 0 Assignment
- Quiz : Week - 0 Assignment
- Quiz : New Assessment
- New Lesson

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

## Week - 0 Assignment

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment. **Due on 2018-08-27, 23:59 IST.**

1) Yeast two hybrid system is used to study **1 point**

- Protein-protein interaction
- Protein-DNA interaction
- Both a&b
- None of the above

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Both a&b*

2) Advantages of using Yeast Two hybrid system are **1 point**

- The assay works well for membrane bound proteins
- The assay can screen for interaction partners of a protein without the need for protein purification
- The assay only detects direct association between 2 proteins
- The assay secretes proteins from the cell and thus works well for proteins with di-sulfide bridges

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*The assay can screen for interaction partners of a protein without the need for protein purification*

3) The number of possible open reading frames present in a DNA sequence? **1 point**

- 1
- 3
- 6
- 12

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
6

4) What is the difference in label-based and label-free detection system? **1 point**

- Label-free detection relies on physical principle of biomolecular binding
- Label-based method uses surface plasmon resonance for detection
- Label-free method uses fluorescence for detection
- All of the above

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**

*Label-free detection relies on physical principle of biomolecular binding*

5) Which of the following is accurate statement for cDNA library? **1 point**

- It can also be called an expressed sequence tag (EST) library
- It consists of coding sequences from genes that are expressed
- It is specific to the set of conditions under which the original mRNA was generated
- All of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of these*

6) Acetylation and phosphorylation can be considered as irreversible posttranslational covalent modification. **1 point**

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*False*

7) In an immunoprecipitation experiment, the protein-protein complexes can be captured on **1 point**

- Gel chromatography Sepharose columns
- SDS-PAGE gels
- Protein A/Protein G Sepharose resin
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Protein A/Protein G Sepharose resin*

8) Which of the following statements are true about interactomics? **1 point**

- It is the study of protein-protein interactions and networks in a living system
- It is the study of proteins with other biomolecules in a living system
- Both of the above
- None of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Both of the above*

9) Which of the following is not a characteristic of Biomarkers? **1 point**

- Differentiate patients from healthy subjects
- Expressed late in the case of diseases
- Help in diagnosis and detection of disease
- All of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of the above*

10 Which of the following components is NOT required for a successful cell free protein synthesis reaction?

**1 point**

- DNA template
- Promoter
- Proteases
- Translation initiation sequence

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Proteases*

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