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Courses » Bioengineering: An Interface with Biology and Medicine

Announcements **Course** Ask a Question Progress FAQ

Unit 1 - How to access the portal

Register for Certification exam

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?
- Quiz : Week 0_Assignment 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 0_Assignment 0

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-25, 23:59 IST.**

1) DNA is made of _____ **1 point**

- glucose units
- nucleic acid
- fatty acids
- lipids

No, the answer is incorrect.

Score: 0

Accepted Answers:

nucleic acid

2) All are proteins except _____ **1 point**

- Hemoglobin
- Myoglobin
- Glucose
- Actin

No, the answer is incorrect.

Score: 0

Accepted Answers:

Glucose

3) The absorbance of protein can be measured at 280 nm and is attributed to the presence of which of the following amino acids? **1 point**

- Tryptophan

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No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

4) Following is a technique that allows to identify samples from a crime scene even when the starting material like a blood spot or hair might be in very low amount? **1 point**

- Cloning of genes
- Amplification using PCR
- Gene silencing
- Karyotyping

No, the answer is incorrect.
Score: 0

Accepted Answers:
Amplification using PCR

5) Phenotype refers to the _____ of an individual **1 point**

- Genetic make-up
- Physical characteristics
- Both A and B
- Neither A or B

No, the answer is incorrect.
Score: 0

Accepted Answers:
Physical characteristics

6) A human has _____ of sex chromosome(s) **1 point**

- 6 pair
- 1 pair
- 3 pairs
- 4 pairs

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 pair

7) You have isolated some onion root cells and following up on the various stages of its cell cycle. You have been informed that the onion root cells have 12 chromosomes so what will be the chromosome number in the somatic cells? **1 point**

- 6
- 24
- 26
- 12

No, the answer is incorrect.
Score: 0

Accepted Answers:

12

8) Hepatitis C virus triggers an immune response in all patients but some patients are able to clear the infection and some are not. This variability can be ascribed to which of the following? **1 point**

- Post translational modification of Proteins
- Presence of stop codon
- Single Nucleotide Polymorphism (SNPs)
- Expressed Sequence Tags (ESTs)
- Differential protein expression

No, the answer is incorrect.

Score: 0

Accepted Answers:

Single Nucleotide Polymorphism (SNPs)

9) You have isolated a plasmid from bacteria, how will you visualize it? **1 point**

- You will use PCR
- You will use Restriction Enzyme
- You will run it on an agarose gel and stain it using EtBr
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

You will run it on an agarose gel and stain it using EtBr

10) You have isolated a novel microorganism from your nearby lake. Enumerate the steps that you will use for cloning the gene? **1 point**

- You will perform a c-DNA synthesis and amplify it
- You will pellet the cells down and perform mass spectrometry
- Restriction digestion of the gene followed by ligation with a vector and transformation
- All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Restriction digestion of the gene followed by ligation with a vector and transformation

11) DNA and RNA are both ribonucleic acid that are involved in genetic propagation & regulation, the following is a base that is exclusively present in RNA and not DNA. **1 point**

- DNA and RNA are both ribonucleic acid that are involved in genetic propagation & regulation, the following is a base that is exclusively present in RNA and not DNA.
- Adenine
- Cytosine
- Thymine
- Uracil

No, the answer is incorrect.

Score: 0

Accepted Answers:

Uracil

