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NPTEL

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Unit 2 - Week 0

Register for Certification exam

Course outline

Assignment 0

The due date for submitting this assignment has passed. **Due on 2019-02-04, 23:59 IST**
As per our records you have not submitted this assignment.

1) What percentage alcohol should be used for surface sterilization? ***1 point***

a. 100%
b. 90%
c. 70%
d. 50%

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c)

2) What is pH of pure water? ***1 point***

a. 7.0
b. 3.0
c. 6.5
d. 9.2

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)

3) What is the pH of 0.05 (M) HCl? ***1 point***

a. 2.00
b. 1.30

(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b)

4) The building blocks of proteins are **1 point**

a. carbohydrate
b. nucleic acids
c. lipid
d. amino acids

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(d)

5) Which of the following is a sulfur containing amino acid? **1 point**

a. Proline
b. Methionine
c. Threonine
d. Serine

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b)

6) Polymerase chain reaction (PCR) is used for **1 point**

a. DNA degradation
b. DNA extraction
c. DNA amplification
d. DNA purification

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c)

7) **1 point**

Protein- ligand interactions can be studied by which of the following techniques?

a. Gel electrophoresis
b. Calorimetric method
c. Fluorescence method
d. All the above

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(d)

8) *1 point*

Sodium dodecyl sulfate (SDS) a detergent commonly used during biochemical experiments, conta

a. 2 Carbon chain
b. 12 Carbon chain
c. 22 Carbon chain
d. 34 Carbon chain

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b)

9) UV light has a wavelength range of *1 point*

a. 0.1nm to 10nm
b. 10nm to 400nm
c. 400nm to 700nm
d. 700nm to 1000nm

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b)

10) Molecular weight of a protein can be determined by *1 point*

a. SDS-poly acrylamide gel electrophoresis
b. fluorescence anisotropy
c. size exclusion chromatography
d. native poly acrylamide gel electrophoresis

(a)
(b)

(c)

(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)
(c)

11) DNA and RNA contain a **1 point**

a. 3 carbon sugar
b. 4 carbon sugar
c. 5 carbon sugar
d. 6 carbon sugar

(a)

(b)

(c)

(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c)

12) **1 point**

You are asked to make 500ml of a 0.5(M) NaOH solution. The molecular weight of NaOH is 40 gm/ How much NaOH will you weigh?

a. 10gm
b. 20gm
c. 40gm
d. 500gm

(a)

(b)

(c)

(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)

13) The backbone of the DNA is **1 point**

a. hydrophilic
b. hydrophobic
c. neutral
d. both hydrophilic and hydrophobic

(a)

(b)

(c)

(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:

(a)

14) Cloning a gene in a plasmid for bacterial expression requires **1 point**

a. ligase enzyme
b. restriction enzymes
c. polymerase chain reaction
d. all of the above

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(d)

15) **1 point**

You are making 200 ml of 70% (v/v) ethyl alcohol. How much of absolute alcohol will you r to measure?

a. 70ml
b. 100ml
c. 140ml
d. 200ml

(a)
(b)
(c)
(d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c)

End