

Unit 5 - Week 4

Course outline

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Week 4

- Lesson 1: Nanotechnology in Point-of-Care Diagnostics
- Lesson 2: Nano-Pharmacology and Drug Targeting
- Lesson 3: Cellular uptake mechanisms of nanomaterials
- Lesson 4: in vitro Methods to study antibacterial and anticancer properties of nanomaterials
- Lesson 5: Nanotoxicology
- Quiz : Assignment 4**
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WEEKLY FEEDBACK

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Assignment 4

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

Due on 2019-09-25, 23:59 IST.

1) Consider the following statements:

1 point

- Most of the point of care test systems are based on the principle of easy to use membrane based test strips.
- Point of care systems can be handled only by medical professionals with advanced clinical knowledge.

Which among the above statements are **correct**?

- 1 only
- 2 only
- Both 1 and 2
- None

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 only

2) The pregnancy test assay detects the presence of the hormone _____ in the _____ sample of the woman.

1 point

- Human chorionic gonadotropin, blood
- Estrogen, blood
- Human chorionic gonadotropin, urine
- Estrogen, urine

No, the answer is incorrect.
Score: 0

Accepted Answers:
Human chorionic gonadotropin, urine

3) To facilitate electrostatic interaction of a drug with DNA molecule, the drug should be

1 point

- Positively charged
- Negatively charged
- Charge neutral
- Zwitterion

No, the answer is incorrect.
Score: 0

Accepted Answers:
Positively charged

4) The term 'ADME' in pharmacology refers to

1 point

- Adsorption, distribution, metabolism and excretion
- Adsorption, distribution, migration and excretion
- Absorption, drug delivery, migration and excretion
- Absorption, distribution, metabolism, and excretion

No, the answer is incorrect.
Score: 0

Accepted Answers:
Absorption, distribution, metabolism, and excretion

5) Phagocytosis is a type of _____.

1 point

- Exocytosis
- Transcytosis
- Pinocytosis
- Endocytosis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Endocytosis

6) Hypertonic sucrose and chlorpromazine are _____.

1 point

- Inhibitors of endocytosis
- Stimulators of endocytosis
- Organalle tracking dyes
- Anti-cancer drugs

No, the answer is incorrect.
Score: 0

Accepted Answers:
Inhibitors of endocytosis

7) The lowest concentration of the nanoparticles that inhibits the growth of bacteria is called as

1 point

- Minimum inhibitory concentration (MIC)
- Minimal bactericidal concentration (MBC)
- Both A and B
- None

No, the answer is incorrect.
Score: 0

Accepted Answers:
Minimum inhibitory concentration (MIC)

8) The zone of incubation is a term associated with _____ anti-bacterial assay.

1 point

- Disc diffusion
- Serial dilution
- Cross streak
- Colony counting

No, the answer is incorrect.
Score: 0

Accepted Answers:
Disc diffusion

9) **Assertion (A):** Gold nanoparticles are highly inactive.

1 point

Reason (R): Gold is an inert material.

- Both A and R are true and R is the correct explanation of A
- Both A and R are true but R is not the correct explanation of A
- A is true but R is false
- A is false but R is true

No, the answer is incorrect.
Score: 0

Accepted Answers:
A is false but R is true

10) Consider the following models of testing toxicity of nanoparticles.

1 point

- Cell lines
- Bacteria
- Zebra fish
- Mouse model

Which among the above are the examples of *in-vivo* testing?

- 1 and 2 only
- 1 and 3 only
- 3 and 4 only
- 2, 3 and 4 only

No, the answer is incorrect.
Score: 0

Accepted Answers:
3 and 4 only