

## Unit 4 - Week 3

### Course outline

How to access the portal

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#### Week 2

#### Week 3

- Lesson 1: Nanomaterials for Cancer Diagnosis
- Lesson 2: Nanomaterials for Cancer therapy
- Lesson 3: Nanotechnology in Tissue Engineering
- Lesson 4: Nano artificial cells
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#### Week 4

#### WEEKLY FEEDBACK

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## Assignment 3

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

**Due on 2019-09-18, 23:59 IST.**

1) Consider the following:

1. Genetic mutations
2. Environmental factors
3. Exposure to chemicals
4. Exposure to sunlight

Which among the above factors can lead to development of cancer?

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

1,2,3 and 4

1 point

2) Statement 1: Any cell that has proto-oncogenes is a cancer cell.

Statement 2: Alterations or mutations in tumor suppressor genes can lead to cancer.

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:

2 only

1 point

3) Increasing the efficient localization of drug loaded nanoparticles inside tumor environment because of enhanced retention and permeability is called as

- Active targeting
- Passive targeting
- Specialized targeting
- Receptor based targeting

No, the answer is incorrect.

Score: 0

Accepted Answers:

Passive targeting

1 point

4) By stealth technology, we can add a polymer such as polyethylene glycol around the nanoparticles and protect it from host \_\_\_\_\_.

- Circulatory system
- Digestive system
- Immune system
- Respiratory system

No, the answer is incorrect.

Score: 0

Accepted Answers:

Immune system

1 point

5) The polymeric scaffolds that are used in tissue engineering are

- One-dimensional scaffolds
- Two-dimensional scaffolds
- Three-dimensional scaffolds
- Multi-dimensional scaffolds

No, the answer is incorrect.

Score: 0

Accepted Answers:

Three-dimensional scaffolds

1 point

6) A scar is formed in the skin after wounding because of the

- Damage of blood vessels in the skin
- Infection of the skin
- Expansion of the skin
- Contraction of the skin

No, the answer is incorrect.

Score: 0

Accepted Answers:

Contraction of the skin

1 point

7) The capsosome is a polymeric capsule containing

- Vacuoles
- Mitochondria
- Nucleus
- Liposomes

No, the answer is incorrect.

Score: 0

Accepted Answers:

Liposomes

1 point

8) **Assertion (A):** Hemoglobin cannot be directly injected into the body.

**Reason (R):** Hemoglobin breaks into dimers and travels through capillary pores creating holes.

- 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:

Both A and R are true and R is the correct explanation of A

1 point

9) 3D Printed artificial organs are allowed to mature by keeping them in a \_\_\_\_\_.

- CO2 incubator
- Thermal incubator
- Bio reactor
- Gas chamber

No, the answer is incorrect.

Score: 0

Accepted Answers:

Bio reactor

1 point

10)The drop-on-demand bioprinter refers to \_\_\_\_\_ bioprinter.

- Dot matrix
- Extrusion
- Laser-assisted
- Inkjet

No, the answer is incorrect.

Score: 0

Accepted Answers:

Inkjet

1 point