

Unit 2 - Week 1

Course outline

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Week 1

- Lesson 1: Introduction to Nano
- Lesson 2: Nano-Biomimicry
- Lesson 3: Synthesis of nanomaterials by Physical and Chemical Methods
- Lesson 4: Synthesis of nanomaterials by Biological Methods
- Lesson 5: Characterisation of Nanomaterials
- Quiz : Assignment 1
- Solution for Assignment 1

Week 2

Week 3

Week 4

WEEKLY FEEDBACK

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Assignment 1

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

Due on 2019-09-11, 23:59 IST.

1) Carbon nanotubes are

0 points

- One-dimensional nanomaterials
- Two-dimensional nanomaterials
- Three-dimensional nanomaterials
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Two-dimensional nanomaterials

2) Nature has given us clues in bacterial flagella to enable us make _____

1 point

- Carbon dots
- Quantum dots
- Nano robots
- Carbon nanotubes

No, the answer is incorrect.
Score: 0

Accepted Answers:
Nano robots

3) By mimicking the wings of butterfly, which among the following can be developed?

1 point

1. Chemical sensors
2. Thermal sensors
3. Magnetic sensors

- All the above
- 2 and 3 only
- 1 and 3 only
- 1 and 2 only

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 and 2 only

4) Nano pillar coatings can prevent

1 point

- Bleaching of colours
- Thermal radiation
- Bacterial infection
- Optical illusion

No, the answer is incorrect.
Score: 0

Accepted Answers:
Bacterial infection

5) Laser ablation method of synthesis of nano particles involve _____ of the substance.

1 point

- Physical breakage
- Polymerisation
- Vaporisation
- Condensation

No, the answer is incorrect.
Score: 0

Accepted Answers:
Vaporisation

6) The heterogeneous nature of a growing nuclei indicates _____

1 point

- It is nucleated at the same time
- It is nucleated at different times
- The instability of the nanoparticles
- The presence of multiple atoms

No, the answer is incorrect.
Score: 0

Accepted Answers:
It is nucleated at different times

7) Periplasmic space is a term associated with

1 point

- Viruses
- Animal cells
- Plant cells
- Bacteria

No, the answer is incorrect.
Score: 0

Accepted Answers:
Bacteria

8) Biotemplating is the process of

1 point

- Using biological materials as template for synthesising synthetic materials
- Using synthetic materials as template for synthesising biological materials
- Using chemical materials as template for synthesising biological materials
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Using biological materials as template for synthesising synthetic materials

9) The Zeta potential of a nano particle indicates its

1 point

- Shape
- Size
- Stability
- Texture

No, the answer is incorrect.
Score: 0

Accepted Answers:
Stability

10) Consider the following statements:

1 point

1. The principle behind the transmission electron microscope (TEM) is similar to an optical microscope except that in TEM, an electron beam is used instead of normal light.
2. As an electron beam is used as the source of illumination, non-conducting materials cannot be studied by using TEM.

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

- 1 only
- 2 only
- Both 1 and 2
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 only