Course outline

How does an NPTEL online course work?

Week-01

Week-02

- Lecture 03- Nano materials their classifications (Part I)
- Lecture 04- Nano materials and their Classification (part II)
- Feedback for Week 2
- Quiz: Week-02: Assignment-02
- Week-02: Assignment-02 Solution

Week-03

Week-04

Week-05

Week-06

Week-07

Week-08

Week-09

Week-10

Week-11

Week- 12

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Week-02: Assignment-02

The due date for submitting this assignment has passed.

Due on 2021-08-18, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which of these historical works of art contain nanotechnology? *1 point*

- Lycurgus cup
- Medieval stained-glass windows in churches
- Damascus steel swords
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

2) What is a buckyball? *1 point*

- A carbon molecule (C60)
- Nickname for Mercedes-Benz's futuristic concept car (C111)
- Plastic explosives nanoparticle (C4)
- Concrete nanoparticle with a compressive strength of 20 nanonewtons (C20)

No, the answer is incorrect.
Score: 0

Accepted Answers:
A carbon molecule (C60)

3) Which one these statements is NOT true? *1 point*

- Gold at the nanoscale is red
- Copper at the nanoscale is transparent
- Silicon at the nanoscale is an insulator
- Aluminum at the nanoscale is highly combustible

No, the answer is incorrect.
Score: 0

Accepted Answers:
Silicon at the nanoscale is an insulator

4) Which of these consumer products is already being made using nanotechnology methods? *1 point*

- Fishing lure
- Golf ball
- Sunscreen lotion
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

5) Plasmonics is *1 point*

- A field of nanophotonics that holds the promise of molecular-size optical device technology
- The science of fluorescent nanoparticles used in modern fireworks
- A hypothetical science used in science fiction weaponry (plasma cannons)
- The technology used to design and build the laser-guided photonic gyroscopes used in aviation.

No, the answer is incorrect.
Score: 0

Accepted Answers:
A field of nanophotonics that holds the promise of molecular-size optical device technology

6) A material with one dimension in Nano range and the other two dimensions are large is called *1 point*

- Micro-material
- Quantum wire
- Quantum well
- Quantum dot

No, the answer is incorrect.
Score: 0

Accepted Answers:
Quantum well

7) The first talk about nano-technology was given by *1 point*

- Albert Einstein
- Newton
- Gordon E. Moore
- Richard Feynman

No, the answer is incorrect.
Score: 0

Accepted Answers:
Richard Feynman

8) The melting point of particles in nano form *1 point*

- Increases
- Decreases
- Remains same
- Increases then decreases

No, the answer is incorrect.
Score: 0

Accepted Answers:
Decreases

9) 1 micrometer (micron) = _____ nm *1 point*

- 1,000
- 100
- 10
- 0.01

No, the answer is incorrect.
Score: 0

Accepted Answers:
1,000

10) Greeks and Romans had used nanoparticles in the manufacture of *1 point*

- cosmetics for eyes
- medicines
- metal articles
- hair-dye

No, the answer is incorrect.
Score: 0

Accepted Answers:
hair-dye