

## Course outline

How does an NPTEL online course work?

### Week-01

● Lecture 01- Nanomaterials: An Overview (Part-I)

● Lecture 02- Nanomaterials: An Overview (Part-II)

● Feedback for Week 1

○ Quiz: Week-01: Assignment-01

● Week-01: Assignment-01 Solution

### Week-02

### 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-01: Assignment-01

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) The size of nanomaterials is between \_\_\_\_ nm

1 point

- 100 to 1000  
 0.1 to 10  
 1 to 100  
 0.01 to 1

No, the answer is incorrect.

Score: 0

Accepted Answers:  
1 to 100

2) Fullerene or bucky ball is made up of \_\_\_\_ carbon atoms.

1 point

- 100  
 20  
 75  
 60

No, the answer is incorrect.

Score: 0

Accepted Answers:  
60

3) Which ratio decides the efficiency of nanomaterials?

1 point

- Weight/volume  
 Surface area/volume  
 Volume/weight  
 Pressure/volume

No, the answer is incorrect.

Score: 0

Accepted Answers:  
Surface area/volume

4) Which property of nanomaterials provides driving force for diffusion?

1 point

- Optical Properties  
 High surface area to volume ratio  
 Sintering  
 None of above

No, the answer is incorrect.

Score: 0

Accepted Answers:  
High surface area to volume ratio

5) Nanomaterials can be .....

1 point

- Metals  
 Ceramics  
 Polymeric or composites  
 All of above

No, the answer is incorrect.

Score: 0

Accepted Answers:  
All of above

6) In the structure of fullerene each carbon atom forms covalent bonds with \_\_\_\_ other carbon atoms.

1 point

- One  
 Two  
 Three  
 Four

No, the answer is incorrect.

Score: 0

Accepted Answers:  
Three

7) 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

8) On both ends of the CNTs, which carbon nanostructure is placed?

1 point

- Graphite  
 Diamond  
 C60  
 Benzene

No, the answer is incorrect.

Score: 0

Accepted Answers:  
C60

9) Quantum dots can be used in \_\_\_\_\_

1 point

- Crystallography  
 Optoelectronics  
 Mechanics  
 Quantum physics

No, the answer is incorrect.

Score: 0

Accepted Answers:  
Optoelectronics

10) What is graphene?

1 point

- New material made from carbon nanotubes  
 A one-atom thick sheet of carbon  
 Thin film made from fullerenes  
 None of above

No, the answer is incorrect.

Score: 0

Accepted Answers:  
A one-atom thick sheet of carbon