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NPTEL

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Courses » Rapid Manufacturing

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## Unit 8 - Week 06

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### Course outline

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Week 06

Lectures 18,  
Polymerization  
Processes  
(Part 1 of 2),  
Dr. Janakarajan  
Ramkumar

Lectures 19,  
Polymerization  
Processes  
(Part 2 of 2),  
Dr. Janakarajan  
Ramkumar

Lectures 20,  
Powder based  
processes (Part  
1 of 3), Dr.  
Janakarajan  
Ramkumar

## Assignment 06

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-13, 23:59 IST.**

1) If a polymer changes its properties when exposed to light, it is known as: **0 points**

- Polymerization
- Polymerization
- Chimerization
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Polymerization*

2) Which radiations can be used for photopolymerization? **1 point**

- Gamma rays
- X-rays
- Electron beam
- All of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*All of these*

3) Which of the following can be the cause of termination of polymerization? **1 point**

- Recombination
- Disproportionation
- Occlusion
- All of these

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Funded by

Powder based processes (Part 3 of 3), Dr. Janakarajan Ramkumar

Quiz : Assignment 06

Solution: Assignment 06

Feedback For Week 6

Week 07

Week 08

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- True  
 False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

5) Which of the following processes is necessary to minimize the laser power requirements of the process? **1 point**

- Cooling of powder  
 Pre-heating of powder  
 Post-heating of powder  
 None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Pre-heating of powder

6) The mechanism of diffusion between powder particles by heating is best called as: **1 point**

- Melting  
 Condensation  
 Sintering  
 All of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Sintering

7) Which of the following is required to achieve very low porosity level? **1 point**

- Long sintering time  
 Low sintering temperatures  
 Both of these  
 None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Long sintering time

8) Calculate the surface energy of the particle where surface energy per unit area is  $25 \text{ J/m}^2$  and surface area is  $10 \text{ m}^2$ . **1 point**  
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- 35 J  
 15 J  
 250 J  
 2.5 J

No, the answer is incorrect.

Score: 0

Accepted Answers:

250 J

9) What is the common characteristic of chemically-induced sintering?

**1 point**

- Porosity
- Part porosity
- Reactive
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Part porosity*

10) How many approaches are there for using powder bed fusion processes in the creation of complex metal components? **1 point**

- 1
- 2
- 3
- 4

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*4*

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