

X



reviewer4@nptel.iitm.ac.in ▼

Courses » Rapid Manufacturing Announcements **Course** Ask a Question Progress FAQ

Unit 9 - Week 07

Register for Certification exam

Course outline

How to access the portal

Week 00

Week 01

Week 02

Week 03

Week 04

Week 05

Week 06

Week 07

Lectures 23, Extrusion based processes (Part 1 of 2), Dr. Janakarajan Ramkumar

Lectures 24, Extrusion based processes (Part 2 of 2), Dr. Janakarajan Ramkumar

Lectures 25, ...

Assignment 07

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-20, 23:59 IST.**

1) State the following statement as true or false. **1 point**

"The material in extrusion base technologies must be in semi-solid state when it comes out of the nozzle."

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True

2) What will be the velocity of the material flow along the channel for the following given conditions? **0 points**

D = 2 m
N = 60
 $\Phi = 30$ degrees

- 56.15 m/s
- 58.15 m/s
- 59.15 m/s
- 60.15 m/s

No, the answer is incorrect.

Score: 0

Accepted Answers:

58.15 m/s

3) What will be the velocity of material towards the nozzle for the above case? **0 points**

- 300 m/s

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



In association with



Funded by

Week 7	372.47 m/s	
<input type="radio"/> Solution: Assignment 07	ce De	
Week 08		
Week 09		
Week 10		
Week 11		
Week 12		
DOWNLOAD VIDEOS		
Interaction Session		

4) State the following statement as true or false.
"Nozzle diameter is not generally kept constant for a particular build." **1 point**

True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

5) Which of the following methods can be used to create scaffolds? **1 point**

Using hydrogels
 Using concrete
 Using wood
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Using hydrogels

6) Which kind of laser is used to cut the sheets in LOM? **1 point**

Ruby Laser
 Carbon Dioxide Laser
 He-Ne Laser
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Carbon Dioxide Laser

7) What is the general range of thickness of paper in LOM? **1 point**

0.01-0.05 mm
 0.07-0.2 mm
 0.2-0.4 mm
 0.4-0.9 mm

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.07-0.2 mm

8) What is the limitation for adhesive bonding? **1 point**

These processes require external supports
 Tooling or alignment is required
 Both of these
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:*Both of these*

9) Which of the following approaches involve slicing of model into thicker layers?

1 point

- Stranton approach
- Stratoconception approach
- Thermal approach
- None of these

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Stratoconception approach*

10) What is the most common defect in UC made parts?

1 point

- Warpage
- Cracks
- Elongation
- Voids

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Voids*[Previous Page](#)[End](#)