

Unit 6 - Week 5

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Reaction injection molding

Autoclave molding

Resin transfer molding

Filament winding

Pultrusion process

Quiz : Assignment 5

Solution For Assignment 5

Week 6

Week 7

Week 8

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WEEKLY FEEDBACK

Assignment 5

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

Due on 2020-03-04, 23:59 IST.

1) Resin transfer molding is generally suitable for manufacturing thermosetting based composite products where a curing reaction takes place within the mold cavity. **1 point**

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

2) Resin transfer molding is also known as solid transfer molding; **1 point**

- True
 False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

3) Autoclave molding technique is similar to _____ with minor modifications. **1 point**

- Vacuum bag molding
 Pressure bag molding
 Both A and B
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both A and B

4) The correct statements in context of resin transfer molding are: **1 point**

- 1 Ability to incorporate inserts and other attachments in the mold
2 High tooling cost
3 Complex structures can be produced

- 1 and 2
 2 and 3
 1, 2 and 3
 1 and 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
1, 2 and 3

5) Which of the following is (are) used to accelerate the polymerization process in reaction injection molding? **1 point**

- Polyamides
 Polyurethanes
 Isocyanates
 All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

6) The reinforcement in the form of _____ is (are) generally used in structural reaction injection molding process. **1 point**

- Unidirectional fabric
 Multiaxial fabric
 Mat
 All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

7) The controlling parameters in filament winding are; **1 point**

- 1 Viscosity of resin
2 Winding pattern
3 Carriage movement

- 1 and 2
 1, 2 and 3
 1 and 3
 2 and 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
1, 2 and 3

8) The correct statement (s) in context of pultrusion is (are); **1 point**

- Difficult to maintain tight tolerances
 Can fabricate extremely large parts
 Complex thin walled shapes can be fabricated
 All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

9) The function (s) of an autoclave is (are) to provide _____ to the composite product during curing. **1 point**

- Heat
 Pressure
 Both A and B
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both A and B

10) The correct statements in context of autoclave molding are; **1 point**

- 1 Better adhesion characteristics between the layers
2 Rate of production is high
3 There is limitation on part size which depends upon autoclave size

- 1 and 2
 1 and 3
 1, 2 and 3
 2 and 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
1 and 3