

Unit 7 - Week 6

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

- Sheet molding
- Pre-pegging and challenges in primary processing of composites
- Secondary processing of polymer composites
- Joining of polymer composites
- Adhesive joining
- Quiz : Assignment 6
- Solution For Assignment 6

Week 7

Week 8

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WEEKLY FEEDBACK

Assignment 6

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

Due on 2020-03-11, 23:59 IST.

- 1) Diffusion bonding is mainly applicable for thermoplastics; 1 point
- True
 False

No, the answer is incorrect.
Score: 0
Accepted Answers:
True

- 2) In adhesive joining, during mechanical interlocking, bonding happens due to interlocking of adhesive and adherend. 1 point
- True
 False

No, the answer is incorrect.
Score: 0
Accepted Answers:
True

- 3) Joining of individual component needs several operations that fall under secondary processing of polymer composites. 1 point
- True
 False

No, the answer is incorrect.
Score: 0
Accepted Answers:
True

- 4) Special environment such as refrigeration is required for the storage of prepregs. 1 point
- True
 False

No, the answer is incorrect.
Score: 0
Accepted Answers:
True

- 5) The different types of adhesive joints are; 1 point
- 1 Double lap
2 Single cover lap
3 Scarf lap
- 1 and 3
 2 and 3
 1 and 2
 1, 2 and 3

No, the answer is incorrect.
Score: 0
Accepted Answers:
1, 2 and 3

- 6) The process used to enhance the surface energy on adherend surface is (are) _____. 1 point
- Plasma treatment
 Ion treatment
 Corona discharge treatment
 All of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of these

- 7) The correct statements in context of adhesive joining are; 1 point
- 1 Ability to join different materials
2 Adhesive bonding usually requires extensive surface preparation before bonding
3 Inspection of an adhesively bonded joint is difficult
- 2 and 3
 1, 2 and 3
 1 and 3
 1 and 2

No, the answer is incorrect.
Score: 0
Accepted Answers:
1, 2 and 3

- 8) The factors influencing the fusion bonded joints are; 1 point
- 1 Material properties
2 Welding pressure
3 Heating duration
- 1 and 3
 1 and 2
 1, 2 and 3
 2 and 3

No, the answer is incorrect.
Score: 0
Accepted Answers:
1, 2 and 3

- 9) Resistance, induction and microwave welding, falls under the broad area of _____. 1 point
- Friction welding
 Electromagnetic welding
 Thermal welding
 All of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
Electromagnetic welding

- 10) The correct statements about pre-pegging techniques are; 1 point
- 1 Extreme care is required during packing and storage of prepregs
2 Better control over the thickness of the laminate is ensured
3 Aramid fiber prepregs are used in making bullet proof vests
- 1, 2 and 3
 1 and 3
 2 and 3
 1 and 2

No, the answer is incorrect.
Score: 0
Accepted Answers:
1, 2 and 3