**Progress** 

## Unit 8 - Week 7

How does an NPTEL online

Course outline

course work?

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Mechanical joining

Microwave joining

welding

composites-I

composites-II

**Text Transcripts** 

DOWNLOAD VIDEOS

WEEKLY FEEDBACK

Week 8

Induction and resistance

Drilling of polymer matrix

Drilling of polymer matrix

Solution For Assignment 7

Ouiz: Assignment 7

Assignment 7 The due date for submitting this assignment has	passed. Due on 2020-03-18, 23:
As per our records you have not submitted this as	
In induction welding technique, thermoplastic co	omposites having non conducting reinforcement is heated by using susceptors at joining interface
○ True	
○ False	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: True	
Delamination factor is the ratio of maximum dian	neter of the drilling induced damage around the hole to the nominal hole diameter.
○ True	
False	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
True	
Choose the correct statements regarding microw	vave joining of polymer composites.
Most of the thermoplastics have low dielectric loss fa	
Thermoset and thermoplastic does not contain perma	
Microwave contains electromagnetic waves in which	electric and magnetic field are perpendicular to each other
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	
i, z and o	
4) When high frequency microwaves interact with n	material; they cause heating of material due to;
O Hysteresis loss	
O Dipolar loss	
Eddy current loss	
All of these	
No, the answer is incorrect.	
Score: 0	
Accepted Answers: All of these	
<ol><li>The failure mechanism (s) observed in mechanic</li></ol>	al fastened joint (is) are;
O Shear out	
O Bolt shear	
Bearing	
O All of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
All of these	
The type (s) of induction coil used during induction	on welding is (are):
Pancake type	
Single turn type Solenoid type	
Solenoid type     All of these	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
All of these	
7) Choose the correct statements considering the r	

## No, the answer is incorrect. Score: 0

Accepted Answers: 1 and 2

1 and 2

2 and 3

1, 2 and 3

8) In resistance welding, heat is generated due to resistance heating (joule loss) of conducting fiber.

True False

No, the answer is incorrect. Score: 0

Accepted Answers: True

9) Resistance welding can be used for joining of components made of;

1 Polyethylene 2 Epoxy

3 Polypropylene

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

10) In resistance welding,

is (are) used as conducting medium (s). Conducting fiber

1 point

1 point

1 point

 Metallic mesh All of these

Metallic wire

No, the answer is incorrect. Score: 0

Accepted Answers: All of these