Assignment 8

Due on: 2020-03-25, 23:59 IST.

This is the deadline for submitting this assignment. As per our records you have not submitted this assignment.

1) The objective of a Knowledge Based Tool is to help engineers and scientists with their specific queries regarding drilling of composite materials.
   - True
   - False
   Accepted Answers:
   True
   1 point

2) In the modern Rotary Ultrasonic Machining, it is possible to give rotary motion as well as ultrasonic vibration.
   - True
   - False
   Accepted Answers:
   True
   1 point

3) Ultrasonic machining is typically used on brittle materials.
   - True
   - False
   Accepted Answers:
   True
   1 point

4) Advantages of drilling in polymer based composites are:
   - True
   - False
   Accepted Answers:
   True
   1 point

5) The CORRECT statements considering the drilling of polymer based composites are:
   - Use of backup plate reduces the drilling induced damage
   - Use of backup plate improves the quality of holes produced
   - Use of backup plate mainly reduces the peel-off type of delamination
   - True
   - False
   Accepted Answers:
   True
   1 point

6) Advantages of helical feed method of drilling includes:
   - Chip removal is better
   - Increase in thrust force
   - High quality holes produced
   - Decrease in drilling induced damage
   - True
   - False
   Accepted Answers:
   True
   1 point

7) Choose the correct statement(s):
   - Vibration assisted drilling significantly improves chip evacuation
   - In rotary ultrasonic machining (RUM), tool is provided with the ultrasonic vibration as well as rotation
   - Vibration assisted drilling improves the quality of holes
   - True
   - False
   Accepted Answers:
   All of these
   1 point

8) The green guide tool works by using a dynamic questions process which calculates a final green guide rating based upon the answers provided.
   - True
   - False
   Accepted Answers:
   True
   1 point

9) In vibration assisted drilling, the contact between the tool and work piece is intermittent.
   - True
   - False
   Accepted Answers:
   True
   1 point

10) Ultrasonic drilling technique can be used for drilling of:
    - Polymeric based composites
    - Epoxy based composites
    - Both A and B
    - None of these
    - True
    - False
    Accepted Answers:
    Both A and B
    1 point