Assignment 6

The due date for submitting this assignment has passed.

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

1. Out of all the polishing processes, which of the following process removes material at atomic scales?
   
   a. Lapping
   b. Buffing-Mirror Polishing
   c. Pick polishing
   d. Elastic Emission Mechanism

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - Elastic Emission Mechanism

2. In addition to the elastic emission mechanism, which of the following process is employed to obtain optical lenses?
   
   a. Lapping
   b. Buffing-Mirror Polishing
   c. Pick polishing
   d. Super finishing
   e. Super polishing

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - Super finishing

3. The function of the spherical end in elastic emission mechanism is:

   a. To produce sharing of peaks by forcing the abrasive particles
   b. To plug the abrasive particles in the gap between tool and workpiece
   c. To lock the abrasive particles on to the surface
   d. Both a and c

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - d. Both a and c

4. By keeping all the grinding tool-related properties the depth of cut, rpm etc., which of the following statement is correct for machining of Thorium alloy?

   a. Conventional grinding gives higher material removal rate compared to electrochemical grinding
   b. Electrochemical grinding gives higher material removal rate compared to conventional grinding
   c. Both Conventional and electrochemical grinding gives same amount of material removal rate
   d. Thorium super alloy is non-conductive

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - b. Electrochemical grinding gives higher material removal rate compared to conventional grinding

5. The material of the tool shoulder in Elastic Emission Mechanism is:

   a. Polyurethane
   b. Polyurethane
   c. Polyurethane
   d. Polyurethane/Aluminium

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - d. Polyurethane/Aluminium

6. Which of the following process is adopted to remove the scratch marks on the spectacle lenses?

   a. Buffing-Mirror polishing
   b. Elastic emission mechanism
   c. Pick polishing
   d. Buffing-Mirror polishing

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - d. Buffing-Mirror polishing

7. The electrochemical machining process uses:

   a. High voltage and low current
   b. Low voltage and high current
   c. High current and high voltage
   d. Low current and low voltage

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - a. High voltage and low current

8. The mass of dissolved material in EDM process is:

   a. Directly proportional to time
   b. Independent of mechanical properties of workpiece
   c. Inversely proportional to the ratio of velocity to atomic weight
   d. All the above

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - d. All the above

9. In which of the following finishing processes, cross hatch pattern on the finished surface is produced?

   a. Buffing-Mirror polishing
   b. Elastic emission mechanism
   c. Only Electrochemical
   d. Buffing-Mirror polishing and Electrochemical

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - d. Buffing-Mirror polishing and Electrochemical

10. The power source used in powder mixed EDM is:

   a. Direct current
   b. Alternating current
   c. Depends on the application
   d. AC current is used in EDM instead of DC

   No, the answer is incorrect. Score: 1

   Accepted Answers:
   - c. Depends on the application