Assignment 8

The due date for submitting this assignment has passed.

Due on 2023-03-25, 23:58 IST.

1. Magnetic abrasive fluids are ________________.
   - [ ] Abrasive slurry fluids
   - [ ] Electro-discharge fluids
   - [ ] Microwelding fluids
   - [ ] None of these
   *Feedback: No, the answer is incorrect. Accepted Answers: All except [ ]

2. The force that is responsible for removing of surface peaks in magnetorheological finishing is ________________.
   - [ ] Formal force generated between wedge and rotating wheel
   - [ ] Tensile force at the surface of abrasive particle and surface peak interaction
   - [ ] Vector sum of both normal force and tangential force
   - [ ] The interaction forces are generated in magnetorheological finishing process
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

3. The function of CMP process is ________________.
   - [ ] Chemically reacted layer of surface
   - [ ] Convex layer due to heat interaction
   - [ ] Contaminated layer due to polishing duty
   - [ ] Mechanically strained layer
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

4. The full form of CMP process is ________________.
   - [ ] Chemical mechanical polishing
   - [ ] Chemical mechanical planarization
   - [ ] Chemical mechanical planishment
   - [ ] Both a and b
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

5. CIP stands for ________________.
   - [ ] Chemical metal particle
   - [ ] Carbon free Particle
   - [ ] Carbon ferron Particle
   - [ ] Carbon steel free Particle
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

6. The function of CMP processes in magnetorheological finishing processes is ________________.
   - [ ] To remove the material from the surface
   - [ ] To hold the abrasive particles firmly
   - [ ] To facilitate free motion to abrasive particle
   - [ ] None of these
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

7. Major disadvantages or limitations of AIP process is ________________.
   - [ ] Lack in control on medium velocity
   - [ ] Ciderless media
   - [ ] Lack of determination
   - [ ] All of these
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

8. The hardness of the abrasive, parent material and passivation layer are H1, H2, and H3 respectively. Then, the necessary condition to get a scratch-free surface from CMP process is ________________.
   - [ ] H1 > H2 > H3
   - [ ] H2 > H1 > H3
   - [ ] H1 = H2 = H3
   - [ ] None of these
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

9. Which of the following is not an advantage of magnetorheological finishing processes? ________________.
   - [ ] Used to finish lenses in optical industry
   - [ ] Blind holes can be finished
   - [ ] Polishing and deforming operation can be combined
   - [ ] Final surface are higher than initial finishing
   *Feedback: No, the answer is incorrect. Accepted Answers: [ ]

10. Magnetic abrasive finishing process adopts the advantages of ________________.
    - [ ] Complete component finishing capability from MPIP process
    - [ ] Controlling capability of the media with external means from AIP process
    - [ ] Both a & b
    - [ ] None of these
    *Feedback: No, the answer is incorrect. Accepted Answers: [ ]