Unit 3 - Week 2

Assignment 2

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

Due on 2020-02-12, 23:59 IST.

1. Which of the following chemical cleaning process needs high-frequency vibrations?
   - Solvent cleaning
   - Ultrasound cleaning
   - Abrasive cleaning
   - Ultrasonic cleaning
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Ultrasonic cleaning

2. Which of the mechanical cleaning process works based on plasticity mechanism?
   - Mass finishing
   - Turn brushing
   - Shot peening
   - Hydro cleaning
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Shot peening

3. The process of disposing a layer of any desired metal on another material using electric current is called:
   - Electroplating
   - Galvanizing
   - Surfing
   - Polishing
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Electroplating

4. Choose an incorrect statement:
   - Pressure treatment helps to establish hydrophobic/ hydrophilic properties
   - Cereals are a two-dimensional heat treatment
   - Permeate is a conformal surface coating
   - Photofabrication processes use the resist to expose the gaps in an emulsion
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Photofabrication processes use the resist to expose the gaps in an emulsion

5. Physical surface modification of nanoscale is:
   - Change in surface chemistry of the material
   - Change in surface chemistry of the material
   - Change in bulk properties of the material
   - None of these
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Change in surface chemistry of the material

6. In which process, an iron base alloy is treated in contact with a sodium salt so that the surface absorbs carbon and nitrogen:
   - Induction hardening
   - Laminating
   - Quenching
   - Carburizing
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Quenching

7. Choose an appropriate condition for Electrical discharge machining (EDM):
   - The electric field between tool and workpiece is greater than the strength of the dielectric
   - Electric field between tool and workpiece is smaller than the strength of the dielectric
   - There is no electric field between the two electrodes
   - The two electrodes are in physical contact
   - No, the answer is incorrect. Score: 0
   Accepted Answers: The electric field between tool and workpiece is greater than the strength of the dielectric

8. In electro-chemical process, the plate to be etched is attached to:
   - Anode terminal of the power supply
   - Cathode terminal of the power supply
   - Any of the terminal of the power supply
   - An another plate which is connected to anode terminal of the power supply
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Anode terminal of the power supply

9. Which of the following processes is a passivation process?
   - Alumining
   - Chromizing
   - Silanizing
   - All of these
   - No, the answer is incorrect. Score: 0
   Accepted Answers: All of these

10. What is electrochemical cell?
    - A device capable to convert mechanical energy to electrical energy or vice versa
    - A device capable to convert chemical energy to electrical energy or vice versa
    - A device capable to convert kinetic energy to electrical energy or vice versa
    - All of these
    - No, the answer is incorrect. Score: 0
    Accepted Answers: A device capable to convert chemical energy to electrical energy or vice versa