Week 8 Assessment

Due on 2019-06-25, 23.59 IST.

As per our records, you have not submitted this assignment.

1. Which primer is used in a photoresist to improve the adhesion of photolithography with substrate?
   - MRCO (monomethylchloroaryl)
   - Positive
   - Negative
   - Improper alcohol
   - Accepted Answer: MRCO (monomethylchloroaryl)

2. What is the purpose of performing development task?
   - To remove solvents by deprotection generated by touching water with bare hand
   - To remove center of a photomask coating
   - To remove moisture after water cleaning process
   - To replace flat and level base
   - Accepted Answer: To remove moisture after water cleaning process

3. Regarding photolithography video lecture, evaluate the following statement.
   - True
   - False
   - Accepted Answer: True

4. Regarding photolithography video lecture, evaluate the following statement.
   - True
   - False
   - Accepted Answer: True

5. There are several types of photolithography defects observed. What type of defect is shown in figure given below?
   - Chip on plate
   - Pin hole
   - Chrome gap
   - Clean back
   - Accepted Answer: Chrome gap

6. Spin coated Photoresist: Thickness is independent of
   - Spin coater rotation speed
   - Spin coating time
   - Humidity of Photoresist
   - Cladded Primer
   - Accepted Answer: Spin coating time

7. What are the two basic states of shape memory alloys explained in the video lecture?
   - Austenite Phase and Martensite Phase
   - Austenite Phase and Soft Phase
   - Soft Phase and Martensitic Phase
   - Austenite Phase and Martensite Phase
   - Accepted Answer: Austenite Phase and Martensite Phase

8. Why SMA are called as smart memory alloys?
   - SMA requires its resistance when exposed to heat
   - SMA requires its electrical properties when exposed to heat
   - SMA requires its thermal conductivity when heated at specific temperature
   - SMA requires its shape when heated
   - Accepted Answer: SMA requires its shape when heated

9. Which after 'smart' material was used in lab experiment for Shape Memory Alloy?
   - MRCO
   - NBR
   - Nohama
   - Iodine
   - Accepted Answer: Iodine

10. Which of the following chemicals is not used during separation of tissues?
    - Kyes
    - Etch-out
    - Chlorinated hydrocarbon
    - Improper
    - Accepted Answer: Improper

11. The two different methods of fabrication of sensors are:
    - Microfabrication
    - Mechanical processing
    - Electrochemical processing
    - No Answer
    - Accepted Answer: Electrochemical processing

12. Which of the following polymers exhibit shape memory effect?
    - Polyethylene
    - Polypropylene
    - Polyvinyl chloride
    - Polyethylene terephthalate
    - Accepted Answer: Polyethylene terephthalate

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    - Accepted Answer: Polyethylene terephthalate