Unit 10 - Week 8:

Week 8 Assignment 8

The due date for submitting this assignment has passed. Due on 2019-03-27, 23:59 IST.
As per our records you have not submitted this assignment.

1) How does quality impact a product?
   a. Inability to maintain performance with time
   b. Product recall
   c. Infant mortality
   d. Lower MTBF

No, the answer is incorrect.
Score: 0
Accepted Answers:

b. c.

2) 100 PGA packages are subjected to mechanical push-pull tests and the quoted failure rate is 0.1 per hour. What is the probability of survival of the component after 500 hours?

a. 0.9
b. 0.6
c. 0.5
d. 0.8

No, the answer is incorrect.
Score: 0
Accepted Answers:
Which failure mechanism is applicable for cracking under a prolonged compressive load?

a. Fatigue
b. Corrosion
c. Cracking
d. Creep

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

4) Which model would you use for a linear degradation with time?

a. Peck’s model
b. Power Law model
c. Johnson Mehl Avrami model
d. Arrhenius model

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

5) How is high cycle fatigue defined?

a. Von Mises stress < Yield Stress
b. Von Mises stress > Yield Stress
c. Ultimate tensile strength > Yield stress
d. Ultimate tensile strength < Yield stress

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

6) When a component said to be overstressed?

a. When loading is increased
b. Applied load is higher than the strength of the component
c. The margin between the applied loading and strength is reduced
d. All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
7) Which failure mode is attributed to moisture?
   a. Popcorning
   b. Tombstoning
   c. Die delamination
   d. Electromigration

No, the answer is incorrect.
Score: 0
Accepted Answers: 
   d.

8) Where do you find 3-D thermal management solutions?
   a. Microelectronics
   b. Power Electronics
   c. Industrial Electronics
   d. Internet of Things (IoT)

No, the answer is incorrect.
Score: 0
Accepted Answers: 
   a.

9) What are the challenges due to migration towards lead free solder?
   a. Change in melting point
   b. Higher anisotropy
   c. Different microstructure
   d. All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: 
   d.
10. What is an advantage of CNT?
   a. Better handling
   b. Adhesive property
   c. Higher flexural strength
   d. Ability to grow on FR4

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.