Unit 8 - Week 6

Assignment 6

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

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

1) The major difference of acoustic emission method from other forms of NDT is that: *1 point*

- Acoustic emission relies on visual interpretation of data
- Computers are used exclusively for analysis
- The energy detected is radiated from the defect itself
- Transducers are used to gather data
- Developers are used to indicate the flaws

No, the answer is incorrect.
Score: 0
Accepted Answers:
The energy detected is radiated from the defect itself

2) After loading the sample, which of the following waves are generated in acoustic emission test: *1 point*

- Light waves
- Sound waves
- Elastic waves
- Stress wave
- Both a, b and d
- Both b, c and d

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both b, c and d

3) During acoustic emission inspection, with no load, with active defect present in test specimen, we can observe acoustic emission: *1 point*

- True
- False

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

4) Acoustic emissions are generated in defective metal systems by: *1 point*

- Slip
- Impurity inside a metal
- corrosion
- phase transformation
- All the above

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

5) Which of the following factor is responsible for the generated acoustic emission in a composite at low strain levels: *1 point*

- Fiber debonding
- Fiber breakage
- Fiber pullout
- Microcracking

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

6) Which of the following is considered as the source parameters of acoustic emission? *1 point*

- Stress
- Crack radius
- Radial velocity of the crack propagation
- All the above

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

7) What are the characteristics of acoustic signal emitted from brittle material? *1 point*

- High frequent bursts of higher amplitude
- Less frequent bursts of higher amplitude
- High frequent bursts of Low amplitude
- Less frequent bursts of low amplitude

No, the answer is incorrect.
Score: 0
Accepted Answers:
Less frequent bursts of higher amplitude

8) Acoustic emission signals are classified into: *1 point*

- Two types
- Three types
- Four types
- Five types

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

9) What should be the Felicity ratio for the safe functioning of a material being inspected by acoustic emission testing? *1 point*

- 0.5
- 0.25
- 0.4
- 1.0

No, the answer is incorrect.
Score: 0
Accepted Answers:
1.0

10) Which of the following parameters can be used to filter out noise in acoustic emission testing? *1 point*

- Threshold
- Duration
- Rise time
- Both B and C

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both B and C