Assignment 11

The due date for submitting this assignment has passed. Due on 2019-04-17, 23:59 IST.
As per our records you have not submitted this assignment.

1) Select the application of ultrasonic technique
   a. Thickness measurement
   b. Crack detection
   c. Weld inspection
   d. All of the above

   (a)  
   (b)  
   (c)  
   (d)  

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

2) What is the order of waves generated when the materials are under stress?
   a. 2 kHz
   b. 20 kHz
   c. 200 kHz
   d. 2000 kHz

   (a)  
   (b)  
   (c)  
   (d)  

No, the answer is incorrect.
Score: 0
Accepted Answers:
Mechanical compliance is defined as

a. Velocity/Force
b. Force/Velocity
c. Displacement/Force
d. Force/Displacement

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

4) The purpose of dye penetration test is

a. Thickness measurement
b. Surface crack detection
c. Temperature measurement
d. Chemical composition identification

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

5) Select a non-contact temperature measurement device?

a. Thermometer
b. Thermocouple
c. Optical pyrometer
d. None of these

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

6) Following are the types of non-destructive testing

a. Acoustic emission
b. Ultrasonics
c. Vibration analysis
d. All of the above
7) Ultrasonic technique can also be applied in non-metallic material
   a. True
   b. False

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

8) Select the technique which can be used for crack detection in non-conductive material
   a. Ultrasonic
   b. Eddy current
   c. Both a. and b.
   d. None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a)
(b)
(c)
(d)

9) Select the type(s) of acoustic emission signal
   a. Transient (burst)
   b. Continuous
   c. Both a. and b.
   d. None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a)
(b)
(c)
(d)

10)
The Eddy current technique is based on the following phenomenon

- Measuring radiation absorption
- Uses high frequency sonar
- Magnetic induction
- None of these

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

11. Measurement of response as well as force is required in experimental modal analysis:

- True
- False

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

12. Experimental modal analysis aims for the evaluation of

- Natural frequencies of the system
- Damping of the system
- Mechanical properties of the system
- All of the above

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

13. Inverse of the mechanical impedance is called

- Mobility
- Compliance
- Stiffness
- Resilience

No, the answer is incorrect.
Score: 0
Accepted Answers:
(a)
(b)
14. In vibrating structures, the points having zero displacements are called  

- a. Mode points  
- b. Node points  
- c. Anti-mode points  
- d. Anti-node points

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

15. Instrumented hammer used in experimental modal analysis, usually has  

- a. A force transducer  
- b. A vibration transducer  
- c. Both a. and b.  
- d. None of these

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