

X

NPTEL

reviewer4@nptel.iitm.ac.in ▼

Courses » Machinery Fault Diagnosis And Signal Processing

Announcements Course Ask a Question Progress FAQ

Unit 14 - Week 12

[Register for Certification exam](#)

Course outline

[How to access the portal](#)[Week 0](#)[Week 1](#)[Week 2](#)[Week 3](#)[Week 4](#)[Week 5](#)[Week 6](#)[Week 7](#)[Week 8](#)[Week 9](#)[Week 10](#)[Week 11](#)[Week 12](#)

Lecture 56: Introduction to Failure Analysis

Lecture 57: Railway Locomotive Noise and Vibration Monitoring

Lecture 58: Paper Mill Vibration Monitoring

Lecture 59: Overview of CBM facilities at IIT

Assignment 12

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

Due on 2019-04-24, 23:59 IST

- 1) Which is a fracture surface characteristic for a ductile material? 1 point
- Grain boundary cracking
 - Cup and cone
 - beach marks
 - None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

- 2) Which can be an installation defect? 1 point
- Cracks
 - Grain growth
 - Misalignment
 - Cannot be determined

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

- 3) Which among are the important properties for material selection? 1 point
- Yield strength
 - Modulus of elasticity

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



In association with



Funded by

Powered by

- Quiz : Assignment 12
- Feedback for Week 12

DOWNLOAD VIDEOS

Assignment Solution

Develop

- (c)
- (d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(d)

4) Failure due to excessive deformation is preferably controlled by _____ 1 point

- a. Dimensions
- b. Material properties
- c. Both a. and b.
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

5) Brittle fracture is more dangerous than ductile fracture because of _____ 1 point

- a. Crack propagation at faster rate
- b. No warning sign
- c. Both a. and b.
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

6) Which of these represent the information about failure? 1 point

- a. Time of failure
- b. Extent of damage, sequence of failure and injuries
- c. Stage of operation when failure occurred
- d. All of the above

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(d)

7) 1 point

SPL (Sound pressure level) measurement in railway locomotive depends upon

- a. Condition of the tracks
- b. Transmission path
- c. Both a. and b.
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

8) In a paper mill, the increase of linear paper output speed

- a. Increases the roll RPM
- b. Increases the load on the bearings
- c. Increases the load on the structure
- d. All of the above

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(d)

9)

While measuring sound and vibration on railway locomotives, in-situ calibration is done for measuring instruments.

- a. True
- b. False

- (a)
- (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

10)

In a paper mill, the rolls may fail due to resonance, if speed of rolls is increased.

- a. True
- b. False

- (a)
- (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

11)



1 point

1 point

1 point

1 point

Multiple rolls are used to dry the wet paper in a paper mills.

- a. True
- b. False

- (a)
- (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

12) Which device can be used for measuring vibration in railway locomotive? **1 point**

- a. Microphone
- b. Accelerometer
- c. Encoder
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

13) Fatigue fracture gives beach marks on the material. **1 point**

- a. True
- b. False

- (a)
- (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

14) Ultrasonic laser based-meter is useful in measuring long distances or heights. **1 point**

- a. True
- b. False

- (a)
- (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

15)

Laser beam is used to measure paper thickness in a paper mill as a quality check for uniform thickness of paper. **1 point**

- a. True
- b. False

(a)
 (b)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)



← Previous Page

End →

