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NPTEL

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Courses » Machinery Fault Diagnosis And Signal Processing

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Unit 12 - Week 10

Register for
Certification exam

Course outline

How to access the
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Week 10

- Lecture 46: Principles of motor current signature analysis
- Lecture 47: Faults in Electrical Machines
- Lecture 48: Thermography
- Lecture 49: Wear Debris Analysis
- Lecture 50: Oil Analysis
- Week 10 : Lecture Material

Assignment 10

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

Due on 2019-04-10, 23:59 IST

1) Which is a rotating part in an electric motor?

1 point

- a. Armature
- b. Field winding
- c. Both a. and b.
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

2)

1 point

Which of these is a fault due to changing of position of minimum air gap between rotor and stator?

- a. Static eccentricity
- b. Dynamic eccentricity
- c. Crack in rotor bar
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

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Week 12

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Solution

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

- 4) Which among these is not a vibration based monitoring technique? **1 point**
- a. Machine signature analysis
 - b. Time domain analysis
 - c. Motor current signature analysis
 - d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

- 5) Which fault identification technique is best suited for submersible pump? **1 point**
- a. Vibration monitoring
 - b. Thermography
 - c. Motor current signature analysis
 - d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

- 6) When sizes of wear debris particles are 10 microns to 100 microns, which is a suitable technique? **1 point**

- a. Spectroscopy
- b. Ferrography
- c. Particle count
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

7) Radiography is used to detect internal defects like crack

1 point

- a. True
- b. False

- (a)
- (b)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

8) Infrared cameras can be used for

1 point

- a. Leakage detection in pipelines
- b. Cracks at building joints
- c. Heat generation in electrical components
- d. All of the above

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(d)

9)

1 point

When sizes of wear debris particles are less than 2 microns, which is a suitable technique

- a. Spectroscopy
- b. Ferrography
- c. Particle count
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

10)

1 point

The type of wear occurring when two material of different hardness rub against each other

- a. Adhesive wear
- b. Abrasive wear
- c. Corrosion
- d. None of these

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

(d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(b)

11) Energy of emitted radiation from a body increases with _____ **1 point**

- a. Increase in temperature
- b. Decrease in temperature
- c. No relation with temperature
- d. None of these

(a)

(b)

(c)

(d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

12) Dynamic eccentricity may be caused by which of the following **1 point**

- a. Bent rotor shaft
- b. Misalignment
- c. Mechanical resonance at critical speed
- d. All of the above

(a)

(b)

(c)

(d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(d)

13) Static eccentricity is not caused by **1 point**

- a. Ovality of stator core
- b. Incorrect positioning of the rotor or stator
- c. Bent rotor shaft
- d. None of these

(a)

(b)

(c)

(d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

14) **1 point**

The wavelengths of infrared wave lie between

- a. 10^{-2} μm to 0.4 μm
- b. 0.4 μm to 0.7 μm
- c. 0.7 μm to 10^3 μm
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(c)

15) Which is contact type temperature measurement device?

1 point

- a. Thermocouple
- b. Optical pyrometer
- c. Both a. and b.
- d. None of these

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a)

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