Unit 9 - How Enclosures can be designed to Protect

Week 8 Assessment

The due date for submitting this assignment has passed. **Due on 2017-09-20, 23:59 IST.**

Submitted assignment

1) Which of these terms best describes the type of material used for making gaskets?

- Rigid
- Deformable
- Ductile
- Conductive

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

- Deformable

2) In the context of enclosures, what is the full form of FSA?

- Functional Standard Authority
- Ferrous Sampling Administration
- Fluid Sealing Association
- Flux Seepage Allowance

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

- Fluid Sealing Association

3) Which of these engineering devices do not need gaskets for their proper functioning?

- Internal Combustion Engines
- None of the above
- Electronic enclosure
- Car windshield

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

- None of the above

4) You are standing near an audio speaker or microphone, and a loud screeching sound is heard as you are receiving a call on your mobile (though it was on silent mode). At the request of others nearby, you switch off your mobile phone and the sound disappears. What was the cause of this sound?

- The phone is defective and should be returned to manufacturer

**Score: 0**

**Accepted Answers:**

- None of the above

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https://onlinecourses.nptel.ac.in/noc17_ec05/unit/unit=61&assessment=67
The mobile speaker was switched on
There was no relation. Somebody was playing a trick on you.
EMI from the mobile phone.

No, the answer is incorrect.
Score: 0
Accepted Answers:
EMI from the mobile phone.

5) In the context of electronic equipment, what is the full form of EMI?
- Electrical Mechanical Industries
- Equated Monthly Instalment
- Exception Management Initiatives
- Electro Magnetic Interference

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

6) Compressors for refrigerators (one can see in the back of the fridge) are completely welded together, that is, sealing of the body, tubes etc are not achieved by using gaskets. This type of sealing is known as
- Adiabatic sealing
- Labyrinth Sealing
- Gasketless sealing
- Hermetic sealing

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

7) Why are electronic enclosures usually sealed by gaskets and not by direct contact between the materials of the enclosure?
- None of the above
- Because achieving a perfect seal is not possible
- Because the sealing would be permanent
- Because achieving the surface finish for a perfect seal is very expensive

No, the answer is incorrect.
Score: 0
Accepted Answers:
Because achieving the surface finish for a perfect seal is very expensive

8) Why is a refrigeration compressor enclosure not sealed by using gaskets?
- Because refrigerant fluid could be poisonous
- Because gaskets will deteriorate over time
- Because there is no loss of refrigerant during the working cycle
- All of the above

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

9) Why are electronic enclosures normally sealed using gaskets and not by welding?
- All of the above
- Because pressure buildup due to temperature change should happen over time
- Because gaskets are cheaper than welding

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above
10. When is EMI an important consideration for the design on an electronics enclosure for a product?

- When the product is intended for special purposes, which as military usage
- When there is sufficient funding to carry out research and development for the product
- When sensitive transducers are present and multiple electronic equipments are close to each other
- When humans touch the product

No, the answer is incorrect.
Score: 0
Accepted Answers:
When sensitive transducers are present and multiple electronic equipments are close to each other