Week 6 Assessment

The due date for submitting this assignment has passed. Due on 2017-09-06, 23:59 IST.

Submitted assignment

1) What is the name of the solvent adhesive that is used to join acrylic pieces? 

- poly vinyl alcohol
- Rice derivative paste
- Two part polypropylene
- Chloroform

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

2) You are designing an enclosure for highly sensitive electronics. In a structure which is expected to provide strength, an abrupt change of section in a corner creates a point of stress concentration, where a crack could form. As a designer, which of these would you use to prevent this occurrence?

- Do nothing. Allow the structure to deform so that the load dissipates
- Add a soft adhesive (to absorb the load)
- Add more material such that it can withstand any load
- Filleting the corner (provide a rounded edge)

No, the answer is incorrect.
Score: 0
Accepted Answers:
Filleting the corner (provide a rounded edge)

3) What is the process by which screw threads are cut into a material?

- Dieing
- Filleting
- Bevelling
- Tapping

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

4) An important advantage of plastic as a structural material is the ability of fastening using the elasticity of the material itself to hold it in place, without using any external object. This is very difficult to
Electronic Enclosures

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Achieve using metal. Such a fastening is known as

- Tenon Mortise
- Snap fit
- Weld Attachment
- Nut-Bolt

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

5) You are a designer who needs to make fifty to a hundred pieces of a plastic enclosure. It is to be cut from a planar sheet with the accuracy of a few microns. Which of these manufacturing processes would you use?

- Hand Crafting
- Deep Drawing
- Laser Cutting
- Injection Moulding

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

6) You are designing an electronics enclosure that will be required in limited numbers, but requires high aesthetics using organic shapes. Which of these materials will you prefer to use?

- Sheet Metal
- Engineering Plastics
- Wood
- Aluminium

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

7) What is the full form of NEMA, in the context of electronic enclosures?

- National Energy Marketers Alliance
- Natural Emergency Management Association
- National Environmental Management Authority
- National Electrical Manufacturers Association

No, the answer is incorrect.
Score: 0
Accepted Answers:
National Electrical Manufacturers Association

8) Which of these is a possible disadvantage of using a standard off-the-shelf enclosure for a high tech electronics product, compared to fabricating it?

- Logistics issues
- Low Cost
- Intellectual Property Theft (Copying) by users
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Intellectual Property Theft (Copying) by users
9) If a plastic used in an enclosure is too soft to have screw threads tapped, which of these is used to allow screws to be fastened onto it?

- Threaded metal inserts
- There is no option to allow screw fastening
- Use of plastic screws
- Cyano Acrylate adhesive

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

Threaded metal inserts

10) Which of the following are the risks in using off-the-shelf ready made enclosures?

- Inability to buy limited quantities
- Possible inaccurate material properties
- Possibility of halt in production
- All of the above

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**

All of the above