Unit 13 - Detailing and Manufacturing Enclosures using CAD

Week 12 Assessment

The due date for submitting this assignment has passed. Due on 2017-10-18, 23:59 IST.

Submitted assignment

1) What function in a CAD package allows multiple entities to be selected together, moved together etc?

- Club
- Union
- Group
- Combine

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

2) In the context of packaging components in an enclosure, what is the meaning of “footprint” or “real estate” of the components?

- Safeguards to prevent components from being stamped
- Cost of buying a factory to manufacture the component
- The area occupied or available for the component

No, the answer is incorrect.
Score: 0
Accepted Answers:
The area occupied or available for the component

3) When planning and assigning dimensions of an enclosure, one must allow for small variations in manufacturing, plate thickness etc. What is the term given for this?

- Thickness variation
- Dimensional allowance
- Dimensional Tolerance
- Dimensional Variation

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

4) What is the feature provided in CAD software, that allows the user to collect many entities into a single entity for easy visualization and operation - for e.g. making them appear on the screen in different colours or be switched on and off so that visualizing other entities is made easier?

1 point

https://onlinecourses.nptel.ac.in/noc17_ec05/unit?unit=89&assessment=99
Using CAD to design electronic enclosures

Detailing and Manufacturing Enclosures using CAD

- Detailing with CAD
- Integrating Products with CAD
- Product Detailing
- Components
  - CAD Physical Models
  - Sheet Metal and Plastic common details
- Sample of Simple Organic Shapes
- Conclusion
- Quiz: Week 12 Assessment

about connectors!

No, the answer is incorrect.
Score: 0

Accepted Answers:
Layer

5) What is the CAD feature that is used to round off sharp edges and corners

- Curve
- Chamfer
- Bevel
- Fillet

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fillet

6) What is the advantage of using and visualizing in the "wireframe" mode when modeling components in CAD?

- There is no benefit
- To allow for quick movement and navigation of the views.
- To make it look attractive

No, the answer is incorrect.
Score: 0

Accepted Answers:
To allow for quick movement and navigation of the views.

7) Why is a 2mm to 4mm gap usually always given between electronic components inside an enclosure?

- To prevent possible shorting
- To allow access for fingers, tools etc
- All of these
- To allow space for "bosses" (for screw attachment)

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

8) When parts and components are symmetrical, what function is used to duplicate an entity on the other side of the axis of symmetry?

- Copy
- Duplicate
- Mirror
- Array

No, the answer is incorrect.
Score: 0

Accepted Answers:
Mirror

9) What is the term used for lines, points, curves in the CAD model that are used as markers, are temporary and will not be used in the final model? (the equivalent of "construction lines" in Engineering Drawing)
10) In CAD software, the operations “union” and “intersection” are examples of which type of operation?

- Combination
- Algebraic
- Boolean
- Mathematical

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

1 point