



✓ **Congratulations! You passed!**
TO PASS 80% or higher

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Final assessment

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1. Fusion 360 does not provide a default library of materials.

1 / 1 point

- ☒ False.
☐ True.

✓ **Correct**
Correct. Answer found Selecting study materials.

2. How can a custom material be created?

1 / 1 point

- ☐ Creating a material from scratching.
☐ Downloading a model with the correct material applied.
☐ Only library materials can be used.
☒ Copy a library material and modify it.

✓ **Correct**
The answer can be found in Creating custom materials.

3. What information is copied when you clone a load condition? (select all that apply)

1 / 1 point

☒ Structural loads.

✓ **Correct**
The answer can be found in Defining multiple load conditions.

☐ Simulation solve results.

☒ Structural constraints.

✓ **Correct**
The answer can be found in Defining multiple load conditions.

4. Simulation results only show the safety factor of a design.

1 / 1 point

- ☒ False.
☐ True.

✓ **Correct**
The answer can be found in Reviewing simulation results.

5. Minimize mass parameter for a shape optimization can't be changed.

1 / 1 point

- ☒ False.
☐ True.

✓ **Correct**
The answer can be found in Detailing optimization criteria.

6. If a shape optimization result contains some internal pockets or occlusions how can they be viewed?

1 / 1 point

- ☐ Opacity Control.
☐ Cut Plane.



- ☒ Slice Plane
- ☐ Section View.

✓ **Correct**

The answer can be found in Reviewing a shape optimization study.

7. Shape optimization automatically sends loads and constraints to a static stress simulation setup.

1 / 1 point

- ☐ True.
- ☒ False.

✓ **Correct**

The answer can be found in Validation through static stress simulation.

8. Shape optimization looks at?

1 / 1 point

- ☒ Load path through a body.
- ☐ Failure of a specific material.
- ☐ Plastic deformation.
- ☐ Factor of safety.

✓ **Correct**

The answer can be found in Review and refine a design.

9. After a simulation study is run and model adjustments are made what happens to the simulation results?

1 / 1 point

- ☐ They are saved externally to be reviewed.
- ☐ They update automatically once the study is activated.
- ☐ They are locked and can no longer be accessed.
- ☒ They are out of date and must be re-solved.

✓ **Correct**

The answer can be found in Review and refine a design.

10. Which of the following need to be applied to solve a structural buckling study of a single beam? (select all that apply)

1 / 1 point

☒ Constraint.

✓ **Correct**

The answer can be found in Define and solve a buckling study.

☒ Load.

✓ **Correct**

The answer can be found in Define and solve a buckling study.

☐ Contact Set.

☐ Local mesh control.

11. Modal frequency requires the use of loads and constraints.

1 / 1 point

- ☐ True.
- ☒ False.

✓ **Correct**

The answer can be found in Define and solve a modal frequency study.

12. What happens to the simulation results if you reduce the mass of a design in a modal frequency study?

1 / 1 point

- ☐ You change the material type.
- ☐ There will be no change, mass doesn't affect modal frequency.

- ☐ You modify the loads applied.
- ☒ You reduce the mass participation.

✓ **Correct**

The answer can be found in Modify the model to reduce the mass participation.

13. A rigid body connector can connect two bodies that are not touching.

1 / 1 point

- ☒ True.
- ☐ False.

✓ **Correct**

Correct. Answer found Create a rigid body connector.

14. When a point mass is created using multiple bodies a point mass is created at each body.

1 / 1 point

- ☐ True.
- ☒ False.

✓ **Correct**

The answer can be found in Apply additional force types.

15. Material properties are not important to a thermal simulation study. Only the study setup information such as thermal loading.

1 / 1 point

- ☒ False.
- ☐ True.

✓ **Correct**

The answer can be found in Setting up thermal study materials.

16. What type of load would you apply to a design that constantly added thermal energy into a design from an electrical component?

1 / 1 point

- ☐ Convection.
- ☒ Heat Source.
- ☐ Applied Temperature.
- ☐ Radiation.

✓ **Correct**

The answer can be found in Understanding and applying types of thermal loads.

17. Rigid bodies are excluded from evaluation during an event simulation.

1 / 1 point

- ☐ False.
- ☒ True.

✓ **Correct**

The answer can be found in Event simulation setup.

18. Contacts must be set even for rigid bodies in an event simulation.

1 / 1 point

- ☐ False.
- ☒ True.

✓ **Correct**

Correct. The answer can be found in Event simulation results review.

19. A mesh must be manually generated before you can solve a simulation study.

1 / 1 point

- ☒ False.

☐ True.

✓ **Correct**

The answer can be found in Generating mesh and mesh control.

20. Cloning a simulation model does not copy simulation study setup information.

1 / 1 point

☒ False.

☐ True.

✓ **Correct**

The answer can be found in Cloning a simulation model.