



# Quiz Questions

## Dynamic Analysis using LS-DYNA in Ansys Workbench Part II

Developed and curated by the Ansys Academic Program

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**This resource mentions Ansys LS-DYNA® nonlinear dynamics structural simulation software and Ansys Workbench™ (WB) simulation integration platform.**

**Below is a series of questions to go along with the Fundamentals of Dynamic Analysis using LS-DYNA in Ansys Workbench Part 2 Lecture.**

1. In a force equilibrium chart for quasi-static analysis, what does a close match between applied forces and reaction forces indicate?

- A) Excess inertia effects are present
- B) The system is unstable
- C) The model is maintaining equilibrium
- D) The load is applied too quickly

Answer: C

2. What is a main drawback of using a fully dynamic simulation for a slow-loading problem?

- A) It cannot handle material plasticity
- B) It requires very small time steps, making it computationally expensive
- C) It always produces non-physical results
- D) It eliminates contact interactions

Answer: B

3. When positioning parts in an explicit quasi-static analysis, why should gaps be minimized?

- A) To reduce the natural frequencies of the model
- B) To prevent high-velocity contact closures that introduce dynamic effects
- C) To make the mesh generation easier
- D) To decrease internal energy

Answer: B

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