
Structural Engineering Test - Answer Key

- 1) **Structural Engineering is a field of engineering dealing with the _____ and _____ of structures that support or resist loads**
 - a) Testing and Analysis
 - b) Analysis and Destruction
 - c) **Analysis and Design**
 - d) Design and Construction

- 2) **Structural engineering is not usually considered a specialty within civil engineering, but it can also be studied in its own right.**

True
False

- 3) **Pyramids are very stable structures because of their triangle base and rectangular sides**

True
False

- 4) **The Channel Tunnel (often called the 'Chunnel' for short) is an undersea tunnel linking?**
 - a) **southern England and northern France.**
 - b) Ireland and Great Britain
 - c) northwest Alaska and Russia
 - d) This tunnel doesn't exist

- 5) **The Panama Canal is an artificial waterway in Panama that connects the Atlantic Ocean with the Pacific Ocean. The canal cuts across the Isthmus of Panama and its main purpose is:**
 - a) a tourist attraction
 - b) to control water levels
 - c) this is not an artificial waterway
 - d) **a conduit for maritime trade.**

- 6) **Dams Are barriers that have the ability to raise the level of water and produce energy?**

True
False

- 7) **Cantilevers are supported on both ends of the structure?**

True
False

- 8) **Snow on a structure is considered a live load?**

True
False

- 9) **Static load is the same as live load**

True
False

10) Which of the following is not a commonly used building material?

- a) Concrete
- b) Steel
- c) Bamboo
- d) Elastic PVC

11) What doesn't a Foundation do?

- a) Transfers load from structure to ground
- b) Is needed for most structures
- c) Transfers load from one structure to another
- d) Can be shallow or deep

12) A Structural Engineer need to be concerned with the safety of their design goals

True
False

13) The weight of a structure itself is considered its?

- a) Live Load
- b) Dead Load
- c) Static Load
- d) Load

14) Force will not change the velocity of an object

True
False

15) Buckling can help support a structure?

True
False