

Advanced Civil Engineering History and Metrics

Civil Engineering · Practice Test · 15 Questions

1. What was the final completion year of the Panama Canal, marking its official opening to maritime traffic?

- A) 1912
- B) 1914
- C) 1916
- D) 1918

2. The Golden Gate Bridge, designed by Joseph Strauss, was completed in which year?

- A) 1933
- B) 1935
- C) 1937
- D) 1939

3. What is the height of the Burj Khalifa in Dubai, currently the tallest man-made structure in the world?

- A) 812 meters
- B) 828 meters
- C) 844 meters
- D) 860 meters

4. In which year did the Tay Bridge disaster occur, leading to significant changes in structural safety standards in the UK?

- A) 1879
- B) 1881
- C) 1883
- D) 1885

5. Who was the primary engineer responsible for the design of the Forth Bridge in Scotland, which opened in 1890?

- A) John Fowler
- B) Benjamin Baker
- C) Gustave Eiffel
- D) Isambard Kingdom Brunel

6. The Akashi Kaikyo Bridge in Japan, at the time of its completion in 1998, set a record for the longest central span. What is that length?

- A) 1,891 meters
- B) 1,991 meters
- C) 2,091 meters
- D) 2,191 meters

7. What is the standard width of a 'narrow' gauge railway track as defined by the most common historical gauge?

- A) 1,000 mm
- B) 1,067 mm
- C) 1,435 mm
- D) 1,524 mm

8. The Hoover Dam, located on the border between Nevada and Arizona, was officially completed in which year?

- A) 1932
- B) 1934
- C) 1936
- D) 1938

9. What is the approximate concrete volume required for the construction of the Three Gorges Dam in China?

- A) 20 million cubic meters
- B) 24 million cubic meters
- C) 28 million cubic meters
- D) 32 million cubic meters

10. Which civil engineering pioneer is credited with the invention of the pneumatic caisson for bridge foundations in the 19th century?

- A) John Roebling
- B) James Eads
- C) Thomas Telford
- D) Robert Stephenson

11. The Channel Tunnel (Chunnel) connecting the UK and France reached its 'breakthrough' point in which year?

- A) 1990
- B) 1992
- C) 1994
- D) 1996

12. The Sydney Harbour Bridge, famously known as the 'Coathanger', was officially opened on which date?

- A) 19 March 1930
- B) 19 March 1932
- C) 19 March 1934
- D) 19 March 1936

13. What is the standard density of normal weight concrete in kilograms per cubic meter (kg/m^3)?

- A) 2,100 kg/m^3
- B) 2,400 kg/m^3
- C) 2,700 kg/m^3
- D) 3,000 kg/m^3

14. The Brooklyn Bridge was opened to the public on May 24 of which year?

- A) 1881
- B) 1883
- C) 1885
- D) 1887

15. What is the maximum grade (slope) percentage typically allowed on standard interstate highways in mountainous terrain?

- A) 5%
- B) 6%
- C) 7%
- D) 8%