

ATT Practice Test Questions and Answers

1. What does bulk density of aggregate refer to?

- A) Weight of aggregate particles only
- B) Volume of water displaced by aggregate
- C) Mass per unit volume including voids
- D) Volume of air in concrete

2. How is the percent passing a sieve calculated?

- A) Retained weight divided by sample weight.
- B) Sample weight minus retained weight divided by total sample weight, times 100.
- C) Sample weight times retained weight.
- D) Retained weight minus sample weight.

3. Why is SSD condition critical in concrete mix design?

- A) To prevent evaporation of water
- B) To control concrete temperature
- C) To ensure proper cement hydration
- D) To account for water absorption accurately

4. How should a field sample be reduced to testing size?

- A) By handpicking desired particles.
- B) By taking a single scoop from the center.
- C) Using a mechanical splitter or quartering method.
- D) By mixing with water and decanting.

Answers: 1-C 2-B 3-D 4-C

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