Q1- A cement bag contains 0.035 cubic meter of cement by volume. How many bags will one tonne of cement comprise?

- (a) 16
- (b) 17
- (c) 18
- (d) 20

Q2-Fineness of cement is measured in the units of

- (a) volume / mass
- (b) mass / volume
- (c) area / mass
- (d) mass / area

ym Mere Q3-The inital setting time of cement depends most on

(A) Tricalcium Aluminate

- (B) Tricalcium Silicate
- (C) Tricalcium Aluminoferrite
- (D) Dicalcium Silicate

Q 4 - Gypsum is added into the raw materials during manufacture of cement so that the final product exhibits

- (a) retarded initial setting time (b) improved mouldability for cornices, etc.
- (c) increased compressive strength
- (d) augmented bond strength

Soundness test of cement is Q5carried out to determine its

- (A) Alumina Content
- (B) Iron Oxide Content
- (C) Free Lime Content
- (D) Durability Under Sea Water

Q 6 - Which compound of cement is responsible for strength of cement?

- (a) Magnesium oxide
- (b) Silica

WWW.E

- (c) Alumina
- (d) Calcium sulphate

Q 7 - Consider the following statements regarding 'setting of cement:

(a) Ordinary Portland

(b) High Alumina

(c) Low-heat Portland

(d) Portland Pozzollona

Q 8 - One bag of Portland cement, 50 kg in weight, would normally have a bulk volume of

(a) 30 l

(b) 35 I

(c) 40 I

(d) 45 l

Q 9 - Consider the following forms of water in a hydrated cement paste:

Mere

XdIII.UI'

hN

- 1. Capillary water
- 2. Chemically combined water
- 3. Interlayer water
- 4. Adsorbed water

Which of the above forms of water will, on its/their removal, cause shrinkage of the paste?

(a) 1, 2 and 3 (b) 1, 2 and 4 (c) 2, 3 and 4 (d) 1, 3 and 4

Q 10 - Consider the foil owing statements: High early strength of cement is obtained as a result of

- 1. Fine grinding.
- 2. Decreasing the lime content.
- 3. Burning at higher temperature.
- 4. Increasing the quantity of gypsum.

(b) 1 and 3

Which of the above statements are correct?

(a) 1 and 2

NWW.

(c) 2 and 3 (d) 3 and 4

Q11 - Assertion (A) : Use of cement lime mortar is generally preferred to cement mortar

Reason (R) : Cement –line mortar has higher workability and water retentivity characteristic than cement mortar

Q12 - Assertion (A): The higher percentage of tricalcium silicate in cement results in rapid hardening with an early gain in strength at a higher heat of hydration.

0

Reason (R) : A higher percentage of dicalcium silicate in cement results in slow hardening and less heat of hydration and greater resistance to chemical attack

pm Merce Q13 - Assertion (A) : Low heat Portland cement is used in dam construction.

Reason (R): Low heat Portland cement attains higher 28 days' strength than ordinary Portland cements.

earn

www.everexam.or