

Unit 3 - Week 1

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Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-09-30, 23:59 IST.

- 1) Which of the following is NOT a feature of a temporary structure? 1 point
- A. Less time required for construction
 B. Light-weight materials used in construction
 C. A strong foundation for withstanding various loads
 D. Easy to dismantle after use, and later reused

No, the answer is incorrect.

Score: 0

Accepted Answers:

C. A strong foundation for withstanding various loads

- 2) Hardness and light transmission properties of any material belong to what category of properties? 1 point
- A. acoustic, and physical, respectively
 B. mechanical, and optical, respectively
 C. physical, and mechanical, respectively
 D. electrical, and optical, respectively.

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. mechanical, and optical, respectively

- 3) What is the reason for avoiding a continuous vertical joint in the construction of brick masonry? 1 point
- A. rainwater may leak along the vertical joint
 B. lateral forces on the wall have a tendency to break it along the vertical joint.
 C. bricks expand during the rainy season
 D. it gives an aesthetically pleasing look

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. lateral forces on the wall have a tendency to break it along the vertical joint.

- 4) What is the function of lime in a brick? 1 point
- A. Improves permeability of brick particles
 B. Melts alumina in clay in the furnace
 C. Gives color to the brick
 D. Helps silica in clay to melt in the furnace

No, the answer is incorrect.

Score: 0

Accepted Answers:

D. Helps silica in clay to melt in the furnace

- 5) Stoneware is used in underground sewer system because it can withstand _____ and is NOT _____. 1 point
- A. heat; durable
 B. force/ pressure; porous
 C. force/ pressure; vitrified
 D. weathering; durable

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. force/ pressure; porous

- 6) The major difference between clay brick and other alternatives of brick is: 1 point
- A. clay bricks require burning to gain strength, while others do not
 B. clay bricks require the application of pressure after drying
 C. cement has to be added to clay bricks for bonding
 D. none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

A. clay bricks require burning to gain strength, while others do not

- 7) Choose the CORRECT qualities of a good brick: 1 point
- A. should make a metallic sound when two bricks are struck together
 B. should be of extremely high thermal conductivity
 C. should be soft to leave a mark when scratched by a fingernail
 D. should not break when allowed to fall from around a height of 1 meter from the ground.

No, the answer is incorrect.

Score: 0

Accepted Answers:

A. should make a metallic sound when two bricks are struck together

D. should not break when allowed to fall from around a height of 1 meter from the ground.

- 8) Read the following statements P, Q, and R regarding clay roof tile, and choose the CORRECT option: 1 point

Statement P: The tile at the top of the roof is called a "gutter tile".

Statement Q: Roofing tiles are placed from bottom to top of the roof.

Statement R: Tiles must not be overlapped sideways.

- A. statements P, Q, are correct, but statement R is wrong
 B. statement Q is correct but statements P, R, are wrong
 C. statements Q, R, are correct, but statement P is wrong
 D. all the statements are correct.

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. statement Q is correct but statements P, R, are wrong

- 9) Two stones which can exhibit the process of "mutual decay" are limestone and _____. 1 point
- A. gneiss
 B. slate
 C. sandstone
 D. shale

No, the answer is incorrect.

Score: 0

Accepted Answers:

C. sandstone

- 10) Suppose you are appointed to select finishing materials for the interior of a kitchen. What materials will you recommend for the countertops, flooring, and dado? 1 point

- A. countertops=ceramic tile, flooring=basalt, dado=gneiss
 B. countertops=granite, flooring=kota stone, dado=quartzite
 C. countertops=kota stone, flooring= sandstone, dado=slate
 D. countertops=marble, flooring= quartzite, dado=sandstone

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. countertops=granite, flooring=kota stone, dado=quartzite

- 11) Select the CORRECT option(s) among the following: 2 points
- A. A high-rise building is an example of a load-bearing structure
 B. Load-bearing structures transfer the load to the foundation
 C. A masonry wall can be pre-cast and then placed on the site later
 D. Framed structures transfer lateral loads to the foundation through beams and columns

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. Load-bearing structures transfer the load to the foundation

D. Framed structures transfer lateral loads to the foundation through beams and columns

- 12) Six randomly chosen bricks, belonging to two different classes, have their initial weights measured, and then kept immersed in water for 24 hours, after which their weights were re-measured. The results are given here: 2 points

Brick #	Initial weight [kg]	Final weight [kg] (after 24-hour immersion in water)
P	2.65	3.14
Q	2.57	2.92
R	2.41	2.85
S	2.46	2.89
T	2.54	2.86
U	2.48	2.93

What is the correct matching of the bricks with their class?

- A. Second class=P,Q,S,U; Third Class=R,T
 B. First class= R,S,U; Second Class=P,Q,T
 C. First class= Q,T; Second Class=P,R,S,U
 D. First class= P,Q; Third class= R,S,T,U

No, the answer is incorrect.

Score: 0

Accepted Answers:

C. First class= Q,T; Second Class=P,R,S,U

- 13) Which of the following statement(s) are CORRECT regarding fly-ash bricks? 0 points

- A. The content of fly-ash in these bricks is around 50-60%
 B. No mixing with water is required
 C. Strength of a fly-ash brick is around 7.5- 10 N/m²
 D. Cement content in fly-ash bricks is around 30-40%

- A
 B
 C
 D

No, the answer is incorrect.

Score: 0

Accepted Answers:

A
C

- 14) Read the following statements P and Q and select the appropriate option: 2 points

Statement P: Porosity of a stone depends on the mineral constituents of it

Statement Q: Due to entrapped air, a porous stone does not disintegrate easily

- A. both the statements- P and Q, are correct
 B. statement P is correct, but statement Q is wrong
 C. statement P is wrong, but statement Q is correct
 D. both the statements are wrong.

No, the answer is incorrect.

Score: 0

Accepted Answers:

B. statement P is correct, but statement Q is wrong

- 15) Which of these may be used as an aggregate for concrete? (choose ALL that are correct). 2 points

- A. granite
 B. marble
 C. slate
 D. basalt

No, the answer is incorrect.

Score: 0

Accepted Answers:

A. granite
D. basalt