

Unit 10 - Week 8

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Assignment 8

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

Due on 2020-11-11, 23:59 IST.

1) Which of the following **TWO** options can be called a general classification of pneumatic structure? 1 point

- (A) Air Supported Pneumatic Structure
 (B) Air Pressure Pneumatic Structure
 (C) Air Inflated Pneumatic Structure
 (D) Air Lifted Pneumatic Structure

No, the answer is incorrect.
Score: 0

Accepted Answers:
(A) Air Supported Pneumatic Structure
(C) Air Inflated Pneumatic Structure

2) The structural concept and the name 'Tensegrity' was first introduced by 1 point

- (A) Philip Jonson
 (B) Felix Candela
 (C) Buckminster Fuller
 (D) Santiago Calatrava

No, the answer is incorrect.
Score: 0

Accepted Answers:
(C) Buckminster Fuller

3) Which of the following **TWO** options are true in connection with Filler Slab? 1 point

- (A) Clay roof tiles are being used as filler material
 (B) Filler material is placed in the bottom part of the slab
 (C) Filler material occupies the space in compression zone of concrete
 (D) No structural steel reinforcement is required in the filler slab construction

No, the answer is incorrect.
Score: 0

Accepted Answers:
(A) Clay roof tiles are being used as filler material
(B) Filler material is placed in the bottom part of the slab

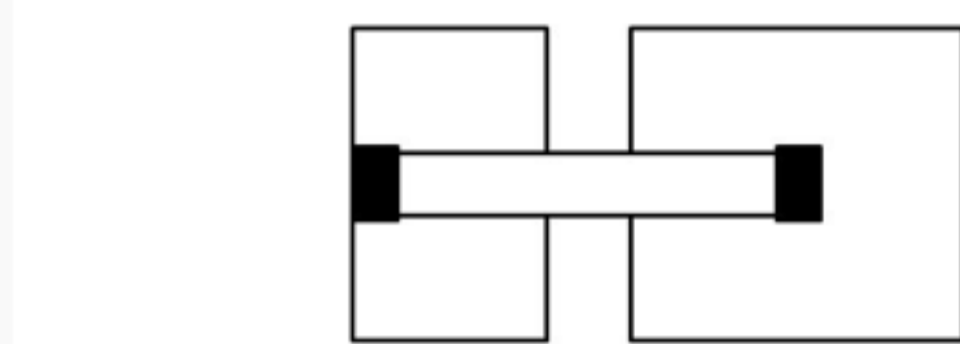
4) Which of the following options is NOT a factor affecting soil bearing capacity? 1 point

- (A) Type of Soil and its properties
 (B) Amount of super structure load
 (C) Depth of water table
 (D) Depth of Foundation

No, the answer is incorrect.
Score: 0

Accepted Answers:
(B) Amount of super structure load

5) The plan of a shallow foundation is shown in the figure below, which is termed as _____ footing



Hint

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) Strap

1 point

6) A combined rectangular footing is proposed for two very closely spaced columns. Each of the columns takes 600KN load. The soil bearing capacity is 120KN/m^2 . If length of the foundation is 2.5 times the width, then the design length of footing will be _____ meter.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 5.0

1 point

7) Which of the following is an interior system of high-rise building structure 1 point

- (A) Tube-in-Tube
 (B) Braced Tube
 (C) Exoskeleton
 (D) Outrigger

No, the answer is incorrect.
Score: 0

Accepted Answers:
(D) Outrigger

1 point

8) Which of the following terms is NOT associated with Structural Detailing 1 point

- (A) Elasticity
 (B) Development Length
 (C) Curtailment
 (D) Anchorage

No, the answer is incorrect.
Score: 0

Accepted Answers:
(A) Elasticity

9) Which of the following statements are NOT correct regarding the beam reinforcement detailing: The minimum distance between two rows of vertical bars in beam shall be 1 point

- (A) 15mm
 (B) One-fifth the width of the beam
 (C) Two-third the nominal size of the maximum size of aggregate
 (D) Maximum size of the bar

No, the answer is incorrect.
Score: 0

Accepted Answers:
(B) One-fifth the width of the beam

10) The minimum diameter of the longitudinal reinforcement of any column is 1 point

- (A) 8mm
 (B) 10mm
 (C) 12mm
 (D) 16mm

No, the answer is incorrect.
Score: 0

Accepted Answers:
(C) 12mm

11) Match the type of shallow foundation in Group-I and its character in Group-II 2 points

Group-I		Group-II	
P	Rectangular Footing	1	Connecting foundation for two close columns and one near property line
Q	Strap Footing	2	Connecting the entire columns by a common thick slab
R	Grid Footing	3	Connecting the entire columns by continuous strips in both orthogonal directions
S	Raft	4	Connecting foundation for two close columns

- (A) P - 4, Q - 3, R - 1, S - 2
 (B) P - 4, Q - 1, R - 3, S - 2
 (C) P - 2, Q - 1, R - 3, S - 4
 (D) P - 3, Q - 4, R - 2, S - 1

No, the answer is incorrect.
Score: 0

Accepted Answers:
(B) P - 4, Q - 1, R - 3, S - 2

12) A group pile is made by five individual piles of 250 mm diameter. The depth of penetration of the piles are 14m. The piles are friction pile. The first 7-meter depth of soil offers skin friction of 15KN/m^2 , whereas, the lower 7-meter offers 35KN/m^2 . The Group pile can withstand a maximum load of _____ KN

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 1373,1376

2 points

13) Following statements are made regarding the Frame Shear Interaction System. Read the statements and choose the correct option. 2 points

Statement P: The inner shear core controls the lateral load subjected to wind.

Statement Q: The rigid frame takes care of the gravity load.

- (A) Statements P and Q both are TRUE
 (B) Statement P is TRUE, but Statement Q is FALSE
 (C) Statement P is FALSE, but Statement Q is TRUE
 (D) Statements P and Q both are FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
(A) Statements P and Q both are TRUE

14) Following statements are made regarding Exterior System of high-rise building structures. Read the statements and choose the correct option. 2 points

Statement P: The major load resisting system is concentrated in the building core.

Statement Q: Tubes are the example of exterior system.

- (A) Statements P and Q both are TRUE
 (B) Statement P is TRUE, but Statement Q is FALSE
 (C) Statement P is FALSE, but Statement Q is TRUE
 (D) Statements P and Q both are FALSE

No, the answer is incorrect.
Score: 0

Accepted Answers:
(C) Statement P is FALSE, but Statement Q is TRUE

15) Match the schematic diagram of different structural systems of tall building in Group-I and their names in Group-II 2 points

Group-I		Group-II	
P		1	Rigid Frame
Q		2	Shear Truss
R		3	Frame-Shear
S		4	Outrigger

- (A) P - 4, Q - 1, R - 2, S - 3
 (B) P - 3, Q - 4, R - 1, S - 2
 (C) P - 2, Q - 3, R - 4, S - 1
 (D) P - 2, Q - 4, R - 1, S - 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
(D) P - 2, Q - 4, R - 1, S - 3