



SSC JE MAINS 2019

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Q :) For reinforced concrete structures supported by isolated footing resting on sand, the maximum permissible settlement as per IS:1904-1986 recommendation is

TNPSC AE 2018.

- (a) 75 mm**
- (b) 60 mm**
- (c) 50 mm**
- (d) 40 mm**

Q :) In plate load test, the excavated width of test pit is.... times the width of test plate.

(a)5

(b)3

(c)4

(d)2

Karnataka PSC AE 2015 Paper - II

Q :) Suggest a most suitable foundation when the loads are heavy and clay soil is soft with abasement floor.

- (a) Isolated footing**
- (b) Wall footing**
- (c) Combined footing**
- (d) Raft footing**

Karnataka PSC AE 2015 Paper - II

Q :) The process of recording the resistance to the driving of bearing tubes as a quick site exploration is:

- (a) Trenching**
- (b) Sounding**
- (c) Jacking**
- (d) Dredging**

Karnataka PSC AE 2015 Paper - II

Q :) The under-reamed piles are connected by a reinforced beam known as :

(a) grade beam

(b) arch beams

(c) plinth beam

(d) plate beam

GPSC AE Class (1&2) Paper- 22017

Q :) Batter Piles are designed to carry which type of load?

(a) Uplift Load

(b) Lateral Load

(c) Load due to negative skin friction

(d) Buckling load

GPSC AE (CLASS 1 & 2) 2019

Q :) With respect to the site investigation for a foundation, significant depth is defined as

- (a) The depth up to which the stress increment due to superimposed load can produce significant settlement**
- (a) The depth at which the ground water is encountered**
- (b) The depth at which coefficient of consolidation equals coefficient of compressibility**
- (a) The depth at which a rock strata is obtained**

GPSC AE (CLASS 1& 2) 2019

Q :) Negative skin friction on a pile under vertical compressive load acts:

- (a) Downwards and increases the load carrying capacity of the pile**
- (b) Downwards and reduces the load carrying capacity of the pile**
- (c) Upwards and increases the load carrying capacity of the pile**
- (d) Downwards and maintain the same load carrying capacity of the pile**

DSSB AE 2019

KPSC AE 2016

BPSC AE 2012 Paper-V

Q :) The type of foundation suitable for underwater structures is

- (a) Cast in situ concrete piles**
- (b) Pier foundation**
- (c) Continuous footing**
- (d) Stepped foundation**

KPSC AE 2016

Q :) The net intensity of loading which the foundation will without under going carry settlement in excess or the permissible value for the structure under consideration but not exceeding net safe bearing capacity is termed as:

- (a) Net loading intensity**
- (b) Ultimate bearing capacity**
- (c) Safe bearing capacity**
- (d) Allowable bearing capacity**

CIL MT 2017

UPRVUNL AE 2016

(RRB SSE (shift-II,III), 02.09.2015)

Q :) Which of the following is a reason for using pile caps over a group of piles?

- (a) For spreading vertical and horizontal loads to all piles**
- (b) For enhancing the load bearing capacity of each pile**
- (c) For protecting piles from displacing laterally**
- (d) For protecting piles from rising up**

CIL MT 2017

Chandigarh AE 2017

Q :) What will be the load carrying capacity (kN) of a group of 6 piles, if the individual load carrying capacity is 150 kN and group efficiency is 75%.

- (a) 542**
- (b) 675**
- (c) 621**
- (d) 500**

CIL MT 2017

Q :) Arrange the bearing capacities of shallow foundation in descending order (from highest to lowest)-

(i) Ultimate Bearing Capacity

(ii) Net Ultimate Bearing Capacity

(iii) Net Safe Bearing Capacity

(iv) Gross Safe Bearing Capacity

(a) (i), (ii), (iv), (iii)

(b) (ii), (i), (iii), (iv)

(c) (i), (ii), (iii), (iv)

(d) (i), (ii), (iv), (iii)

Gujarat PSC AE (N. W.R.) 2020

Q :) Inverted arch footing is more suitable for

(a) Residential buildings

(b) Bridges

(c) Single storey buildings

(d) Light wave

Nagaland PSC Paper-II 20117

Q :) The contact pressure of rigid footing on cohesive soils is

- (a) More in the centre than at the edges**
- (b) Less in the centre than at the edges**
- (c) Uniform throughout**
- (d) None of these**

Nagaland PSC Paper-II 2017

Q :) Consider the following statements as suggestive of the bearing capacity of soil:

- 1. The maximum net loading intensity at which neither the soil fails in shear nor is there excessive settlement detrimental to the structure.**
- 2. The maximum net pressure which the soil can carry without shear failure.**
- 3. The net ultimate bearing capacity of the soil divided by a factor of safety.**

Which of the above statements is/are correct?

- (a) 1, 2 and 3**
- (b) 2 only**
- (c) 1 only**
- (d) 3 only**

ESE 2017

Q :) Consider the following statements:

For a rigid footing placed at the ground surface on sand, the contact pressure

1.is maximum at the edges

2.is zero at the edges

3.distribution is parabolic

4.is uniform throughout the base of the footing.

Which of the above statements are correct?

(a) 1 and 4 only

(b) 2 and 4 only

(c) 1 and 3 only

(d) 2 and 3 only

Q :) Which of the following is not considered in the design of the isolated footings?

- (a) Bending moment**
- (b) Punching stress**
- (c) Shear**
- (d) Torsion**

ISRO Scientist/Engineer 2020

Q :) The cyclic plate load test in soils can be adopted to determine the

(a) Consolidation characteristics of soils

(b) Dynamic shear modulus of the soil

(c) Permeability characteristics of the soil

(d) None of the above

ISRO Scientist/Engineer 2019

Q :) Fender piles are

(a) Used to function as retaining walls

(b) Used to protect concrete deck or other water front structures from the abrasion or impact

(a) Driven at an inclination to resist large horizontal inclined forces

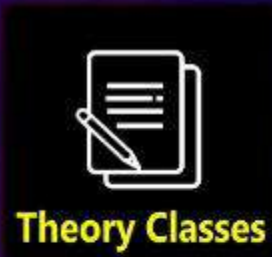
(a) Driven in granular soil with the aim of increasing the bearing capacity of the soil

ISRO Scientist/Engineer 2017



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