



SSC JE MAINS 2019 Civil Engineering At Just

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Q) The strain energy in a simply supported beam of span 'L' and flexural rigidity EI due to central concentrated load W is given by:

A:
$$\frac{W^{2} L^{2}}{48EI}$$
B:
$$\frac{W^{2} L^{3}}{48EI}$$
C:
$$\frac{W^{2} L^{2}}{96EI}$$
D:
$$\frac{W^{2} L^{3}}{96EI}$$

- Q) In a slab, the minimum reinforcement for Fe 250 provided, is:
- A: 0.10% of its gross sectional area
- B: 0.12% of its gross sectional area
- C: 0.15% of its gross sectional area
- **D: None of these**

- Q) Whenever the earthquake or wind loading is considered in design of a member, the permissible stresses may be increased by:
- A: 25%
- **B: 30%**
- **C: 35%**
- D: 33.33%

- **Q**) The purpose of lateral ties in short RC columns is to:
- A: Avoid bucking of longitudinal bars
- **B: Facilitate construction**
- **C:** Facilitate compaction of concrete
- D: Increase the load carrying capacity of the columns

- Q) For vertical stirrups, the maximum spacing of shear reinforcement measured along the axis of the members shall not exceed:
- A: 0.70 d
- B: 0.75 d
- C: 0.80 d
- D: 0.90 d

- Q) The addition of pozzolana to Portland cement may cause:
- A: Decrease in early strength
- **B: Increase in early strength**
- **C: Decrease in curing time**
- **D: Increase in permeability**

- Q) The most commonly used admixture which prolongs the setting time is:
- A: Calcium chloride
- **B: Gypsum**
- **C: Sodium silicate**
- **D: All of these**

- Q) In ordinary residential buildings, D.P.C. may by provided:
- A: At ground level
- **B: Between ground level and water table level**
- **C: At water table level**
- D: At plinth

- Q) The tolerance in the width of mould of a class I brick is about:
- A: ± 3 mm
- B: ± 6 mm
- C: ± 10 mm
- D: ± 12 mm

- Q) The type of flooring suitable for the use in theatres and public libraries and other places where noiseless
- floor covering is desired:
- A: Wooden flooring
- **B: Linoleum flooring**
- C: Cork flooring
- **D: None of these**

- Q) One of the main disadvantages of the bar chart for construction management is:
- A: The time schedule is not shown properly
- **B: Progress of the work cannot be monitored**
- C: The financial aspect is not shown
- D: Does not shown the interdependencies of the activity

- Q) Which of the following does not represent an activity?
- A: Foundation is being dug
- **B: Site located**
- **C:** The office area is being cleaned
- **D: None of these**

- Q) A document containing detailed description all the items of work together with their current rates is called:
- A: Analysis of rates
- **B: Abstract of estimate**
- **C: Schedule of rates**
- **D: None of these**

- Q) Work breakdown structure for a construction project will help in:
- A: Breaking the project into several elements
- **B: Identifying the activities**
- C: Identifying the functional elements of a project and
- their interrelationship
- **D: None of these**

- **Q**) Differential manometers are used to measure:
- A: Pressure in water channels, pipes etc.
- **B: Difference in pressure at two points**
- **C: Atmospheric pressure**
- **D: Very low pressure**

- Q) The soil transported by wind is called: A: Aeolian soil
- **B: Marine soil**
- **C: Alluvial soil**
- **D: Lacustrine soil**

- Q) A soil sample is having a specific gravity of 2.6 and avoid ratio of 0.78. The water content in percentage required to fully saturate the soil at that void ratio is:
- A: 10%
- **B: 30%**
- **C: 50%**
- D: 70%

- Q) The ratio of the unconfined compressive strength of undisturbed soil to the unconfined compressive strength of soil in a remoulded state, is called:
- A: Sensitivity
- **B: Thixotropy**
- **C: Relative strength**
- **D: None of the above**

- Q) The ratio of settlement at any time, t to the final settlement is known as:
- A: Compression ratio
- **B: Coefficient of consolidation**
- **C: Compression index**
- **D: Degree of consolidation**

- Q) The ultimate bearing capacity of a soil, is:
- A: Load at which soil consolidates
- B: Load at which soil fails
- C: Total load on the bearing area
- D: Safe load on the bearing area

- Q) Raft foundation are generally preferred to when the area required for individual footing, is more than:
- A: 25% of total area
- B: 30% of total area
- C: 40% of total area
- D: 50% of total area

- Q) The arrangement of supporting an existing structure by providing supports underneath, is known as:
- A: Shoring
- **B: Underpinning**
- C: Jacking
- **D:** Piling

- **Q**) The most efficient traffic signal is:
- A: Simultaneous system
- **B: Flexible progressive system**
- **C: Simple progressive system**
- **D: Alternate system**

- Q) The error which is not completely eliminated in reciprocal leveling, is:
- A: Error due to curvature
- **B: Error due to refraction**
- C: Error due to non-adjustment of line of collimation
- D: Error due to non-adjustment of bubble tube

- Q) The contour lines can; cross one another on map only in the case of:
- A: AN overhanging cliff
- **B: A valley**
- C: A ridge
- **D: A vertical cliff**

- Q) A curve of varying radius is known as:
- A: Varying curve
- **B: Compound curve**
- **C: Transition curve**
- **D: Reverse curve**

- Q) The method of finding out the difference in elevation between two points for elimination the effect of curvature and refraction, is:
- **A: Precise leveling**
- **B: Differential leveling**
- **C: Reciprocal leveling**
- **D: Fly leveling**

- Q) The horizontal angle between true meridian and magnetic meridian, is known as:
- A: Convergence
- **B: Magnetic declination**
- **C: Bearing**
- D: Dip

- Q) A relatively fixed point of known elevation above datum, is called:
- A: Bench mark
- **B: Datum point**
- **C: Reduced level**
- **D: Reference point**

- Q) The curvature of the Earth's surface, is taken into account only if the extent of survey is more than
- A: 100 sq km
- B: 160 sq km
- C: 200 sq km
- D: 260 sq km

Q) Determine the degree of static and kinematic indeterminacy of the frame structure as shown in the

figure:

A: 15, 8 B: 12, 12 C: 12, 10 D: 15, 9



Q) For the frame shown in the figure, the shear equation is



 $\mathbf{D:} \mathbf{M}_{AB} + \mathbf{M}_{BA} + \mathbf{M}_{CD} + \mathbf{M}_{CD} = \mathbf{P}$



- Q) As per the modified classification of road system by
- the third road development plan, 1981-2001, the roads in
- the country under 'Primary system' of road network consist of
- A: Expressways and national highways
- B: State highways (SH) and Major district roads (MDR)
- C: Other district roads (ODR) and village roads (VR)
- **D: All of the above**

- Q) Select the appropriate alternative from the following: Soil deposit is called as 'over-consolidated', if
- A: $P_o > P_c$
- **B:** $P_o \leq P_c$
- $\mathbf{C: P_o} = \mathbf{P_c}$
- $\mathsf{D:} \mathsf{P}_{\mathsf{o}} < \mathsf{P}_{\mathsf{c}}$
- Where P₀ is the present effective overburden pressure
- and P_c is preconsolidation pressure.

- Q) Which of the following is not a test for measuring workability of concrete?
- A: Slump test
- **B: Flow test**
- C: Std. consistency test
- **D: Kelly ball test**

Q) If a solid shaft is subjected to a torque (T) at its end such that maximum shear stress does not exceed f_s, the diameter of the shaft will be:



Q) The fixed end moment foe the beam loaded is:





- Q) In the design of cantilever retaining wall, if the angle of repose (Φ) is 30^o Then the relation between active earth pressure (Ka) and passive earth pressure (Kp) will be:
- A: Ka = $\frac{1}{3}$ Kp B: Ka = 3 Kp
- **C:** Ka = $\frac{1}{3}$ Kp
- D: Ka = 9 Kp

Q)Match the minimum number of longitudinal steel bars required in columns as per cross section of column:

List - I	List - II
A. Rectangular column	1.4
B. Circular Column	2.5
C. Octagonal Column	3.6
	4.8

- A 1, B 2, C 3
 A 1, B 3, C 4
 A 4, B 3, C 1
- 4. A 3, B 1, C 4

Q) Maximum reinforcement provided in a beam section shall not exceed _____.

A: $\frac{0.85}{f_y}$ (bd) B: $\frac{0.87}{f_y}$ (bd) C: 0.04 (bd) D: 0.04 (bD)



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