



### JE 2022 LIVE ONLINE CLASSES

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#### **Course Details**

Start :- 14 June 2022 😏 Validity:- Till The Exam (Under 5 Months)

**Duration:- 150 Hours** 

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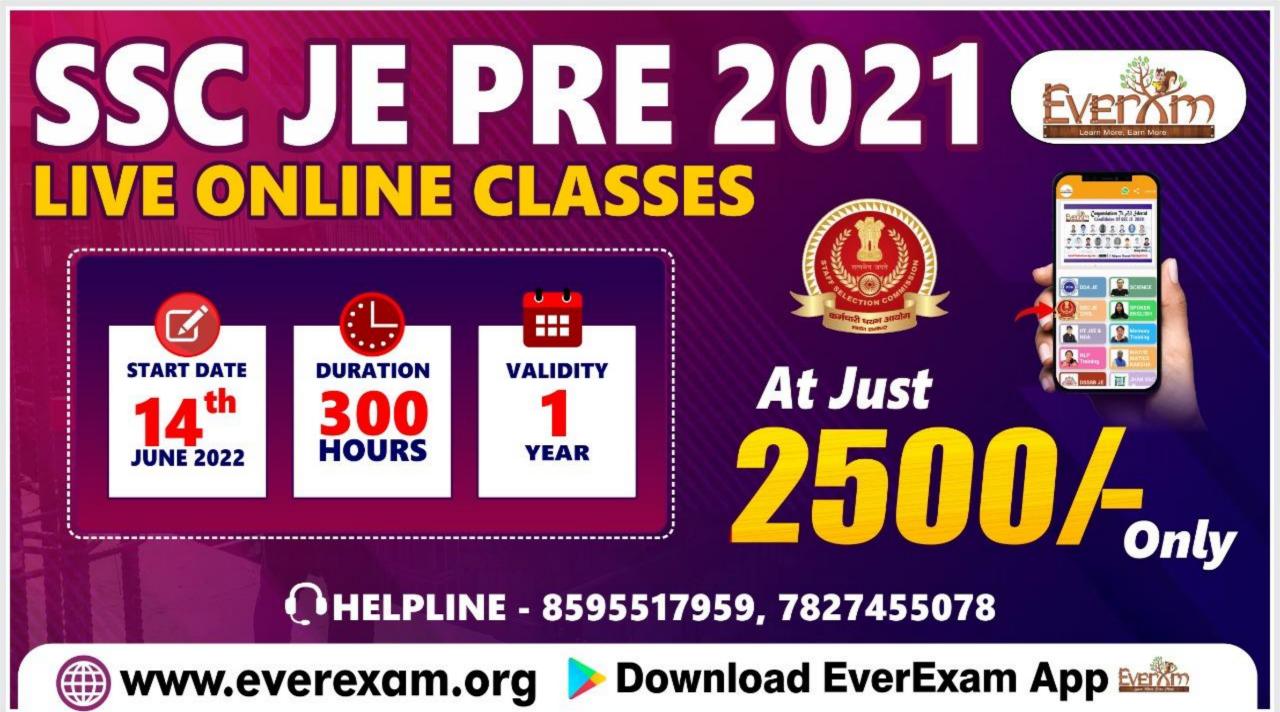
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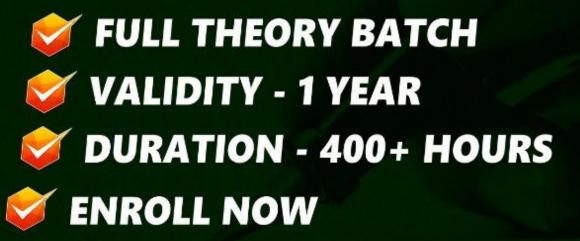
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# Foundation Batch ALL STATE AE/JE EXAMINATION





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Q : 57) During the flow over length of 30 m, the head loss of 5 m is occurred during the seepage. What is the value of hydraulic gradient? A : 0.005 B : 0.045

- **C** : **0.167**
- D:0.192



Q:58) If the sp. Gr. of the soil is

represented by G and the void ratio is e, the

hydraulic gradient i is expressed as

$$A: \frac{G-1}{1+e}$$
$$B: \frac{G-1}{1+e}$$
$$C: \frac{G-1}{1+e}$$
$$D: \frac{G-1}{1+e}$$

Q:59) If the void ratio and discharge vischarge velocity for soil is 0.5 and 6×10<sup>-7</sup> m/s respectively, what is the value of seepage velocity (m/s)? A: 3×10<sup>-7</sup> B: 6×10<sup>-7</sup>  $C: 12 \times 10^{-7}$  $D: 18 \times 10^{-7}$ 



Q : 60) he unit of the coefficient of consolidation is: A : cm/gm B : cm<sup>2</sup>/sec C : gm/cm<sup>2</sup> D : gm-cm/sec

Q: 61) The consolidation time for soils.

- A : Increases with increasing compressibility
- **B** : Decreases with increasing permeability
- **C** : Is independent of the stress
- change
- **D** : All of the above

Q:62) The coefficient of compressibility of soil, the ratio of:

- A : Stress to strain
- **B** : Strain to stress
- **C** : Stress to settlement

D : Rate of loading to that of settlement



**Q**: 63) Which one of the following shows time factor (approximate), for 50% degree of consolidation? A:0.2 **B**: 0.5 **C**:1 **D**:2

Q: 64) The pore water pressure in the soil sample of consolido meter test is.....

- A : Maximum at bottom
- **B : Maximum at centre**
- C: Maximum at top
- **D** : Minimum at center

Q : 65) The clay deposit of thickness 10 cm and void ratio 0.5 undergoes settlement and now its final void ratio is 0.2. The thickness (cm) of the settlement layer.

- A:1
- B:1.5
- **C**:2
- D:2.5

Eventin

Daily Class – 8:00 PM

Q:66) In triaxial compression test on a soil specimen, the intermediate principle stress is equal to A : Major principal stress **B** : Minor principal stress **C** : Difference between major and

minor principal stress

**D** : None of these

- Q:67) In triaxial test, the intermediate principal stress is:
- A : Equal to zero
- **B** : Equal to confining pressure
- **C** : Equal to deviator stress

D : Equal to deviator stress minus the confining stress

Q: 68) A footing is resting on fully saturated clayey strate for checking the initial stability, shear parameter are used from: A : Consolidated undrained test **B**: Unconsolidated drained test C: Unconsolidated undrained test D: Unconsolidated undrained test with pore pressure measurement



- Q:69) Unconfined compressive strength test is:
- A : Undrained test
- **B** : Drained test
- **C : Consolidated undrained test**
- **D** : None of the above



- Q:70) Vane shear test is used to find out shear strength of:
- A : Sandy soil
- **B** : Gravelly soil
- C : Clayey soil
- **D** : All options are correct

Q:71) The cell pressure and pore water pressure is increased from 0.1 N/sq.m to 0.26 N/sq.m and 0.07 N/sq.m to 0.15 N/sq.m respectively in the triaxial test. The skempton's pore pressure is given by.....

- A:-3
- B:-0.5
- **C**: 0.5
- **D**:2

Q : 72) Which of the following parameter is determined by triaxial test?

- A : Hydraulic gradient
- **B** : Permeability
- **C** : Shear strength parameters
- D : Grain size

Q:73) The angle of repose of a soil is the maximum angle which the outer face of the soil mass makes. A : With the horizontal **B**: With the vertical **C** : With the perpendicular to the inclined plane of the soil **D** : None of these



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