

GATE 2023 Civil Engineering Part 1 Question Paper PDF (Memory Based)

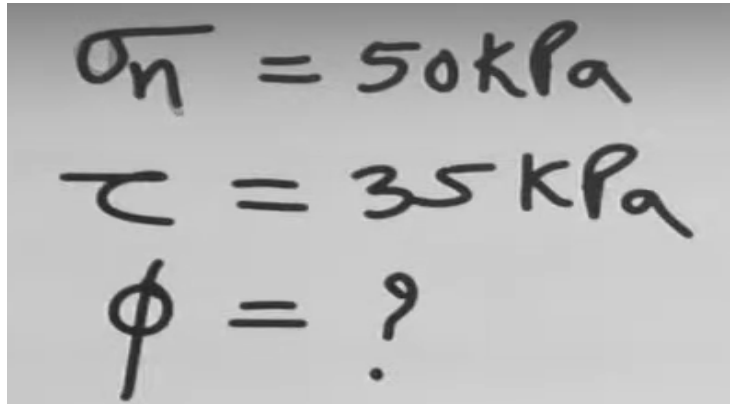
Question. Specific Gravity (G) = 2.6
Degree of saturation (S) = 0.5
Water content (W) = 0.15 , find e = ?

Answer. 0.78

Question. $dy/dx = axy$ { $y = 1$, at $x = 0$, $y = 0.8$ at $x = 1$ }

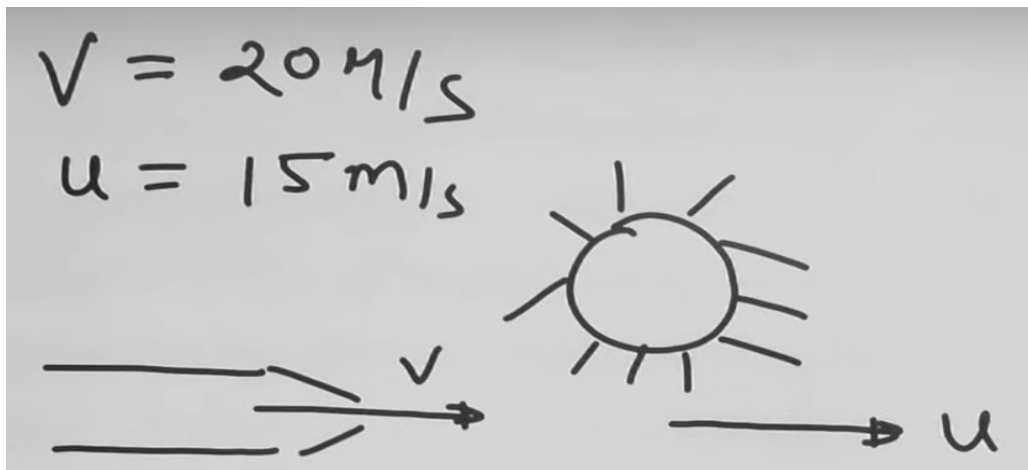
Answer. 0.446

Question.


$$\begin{aligned}\sigma_n &= 50 \text{ kPa} \\ \tau &= 35 \text{ kPa} \\ \phi &= ?\end{aligned}$$

Answer. 35°

Question. Find efficiency



- A. 66.7%
- B. 88.9%
- C. 50%
- D. 37.5%

Answer. D

Question.

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \\ 3 & 1 & 2 \end{bmatrix}$$

- A. $EV(A^{-1})$ reciprocal of A
- B. A^T EV same as A
- C. A^{-1} Eigen Vector same A
- D. A^T Eigen Vector same A

Answer. A, B and C

Question. $\int_{-1}^1 1/x^2 dx$

- A. 2
- B. -2
- C. 0
- D. Integration does not converge

Answer. D

Question. $P(A) = 0.5, P(B) = 0.8, \rightarrow$ Independent
Atleast [A or B]: ?

Answer. 0.9

Question. Some human are intelligent

- A. All human are intelligent
- B. Some non - human are intelligent
- C. Some intelligent beings are human
- D. No human is intelligent

Answer. C

Question. Eject : Insert : Advance : ?

- A. Retreat**
- B. Advent**
- C. Progress**
- D. Loan**

Answer. A

Question. I have not yet decided what will I do this evening. I ___visit a friend.

- A. might**
- B. did not**
- C. would**
- D. mite**

Answer. A