

Q.No. 17 An elastic bar of length L , uniform cross sectional area A , coefficient of thermal expansion α , and Young's modulus E is fixed at the two ends. The temperature of the bar is increased by T , resulting in an axial stress σ . Keeping all other parameters unchanged, if the length of the bar is doubled the axial stress would be

- (A) σ
- (B) 2σ
- (C) 0.5σ
- (D) $0.25\alpha\sigma$

Answer: (A)

Q.No. 18 Which one of the following is NOT a correct statement?

- (A) The function x^e/x , ($x > 0$), has the global maxima at $x = e$
- (B) The function x^e/x , ($x > 0$), has the global minima at $x = e$
- (C) The function x^2 has neither global minima nor global maxima
- (D) The function $|x|$ has the global minima at $x = 0$

Answer: (B)

Q.No. 19 The ratio of the plastic moment capacity of a beam section to its yield moment capacity is termed as

- (A) aspect ratio
- (B) load factor
- (C) shape factor
- (D) slenderness ratio

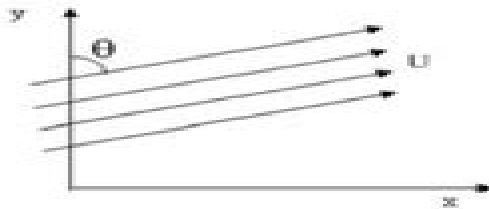
Answer: (C)

Q.No. 20 Dupuit's assumptions are valid for

- (A) artesian aquifer
- (B) confined aquifer
- (C) leaky aquifer
- (D) unconfined aquifer

Answer: (D)

Q.No. 21 Uniform flow with velocity U makes an angle θ with the y -axis, as shown in the figure



The velocity potential (Φ), is

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