

Q.36 What is the hydrostatic stress for the state of stress represented by σ_{ij} given below? _____

$$\sigma_{ij} = \begin{bmatrix} 100 & 50 & 50 \\ 50 & 125 & 75 \\ 50 & 75 & 75 \end{bmatrix}$$

Q.37 Assume that Sievert's law holds for solubility of hydrogen dissolved in a thin metal foil. If the partial pressure of hydrogen in contact with the foil is increased by a factor of 4, the solubility increases by a factor of _____

Q.38 A body starts yielding when it is subjected to a stress state with principal stresses of 250 MPa, 50 MPa and -50 MPa. What is the yield strength of the material, in MPa, if Tresca yield criterion is obeyed? _____

Q.39 Determine the correctness or otherwise of the following Assertion(a) and Reason (r):

Assertion (a): Deoxidation and decarburisation of liquid steel are done by vacuum treatment process.

Reason (r): Decreased partial pressure of CO(g) promotes deoxidation and decarburisation.

(A) a is false but r is true

(B) a is true but r is false

(C) a is true and r is also true, but r is not the reason for a

(D) a is true and r is also true, and r is the reason for a

Q.40 In a sand casting of a rectangular slab, the thickness of the solidified layer after 2 minutes is known to be 3 cm. Based on Chvorinov's rule, the solidified thickness (in cm) after 4 minutes is _____

Q.41 A rod of a metal with Young's modulus of 200 GPa is pulled in tension to a stress of 400 MPa. What is the elastic strain (in %) that is recovered, when the rod is completely unloaded? _____

Q.42 Match the following strengthening methods (Group I) in metallic alloys with typical mechanisms responsible (Group II) for them.

Group I

- P. Grain size strengthening
- Q. Work hardening
- R. Dispersion strengthening
- S. Solid solution hardening

Group II

- 1. Orowan looping
- 2. Suzuki interaction
- 3. Lomer-Cottrell barrier
- 4. Dislocation pileup at grain boundaries

(A) P-3, Q-4, R-2, S-1

(C) P-4, Q-3, R-1, S-2

(B) P-3, Q-2, R-1, S-4

(D) P-4, Q-1, R-3, S-2

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