The due date for submitting this assignment has passed. **Due on 2016-03-04, 23:55 IST.**

Submitted assignment

1) Forming stable solid solution between two elements A and B. The driving force to form stable solution is?

- Entropy
- Configurational Entropy
- Free energy
- None

No, the answer is incorrect.
Score: 0
**Accepted Answers:**
*Configurational Entropy*

2) The statement "The configurational entropy of solution of B in A is always higher than that of pure A or pure B"

- True
- False
- Partially True
- Cannot Say

No, the answer is incorrect.
Score: 0
**Accepted Answers:**
*True*

3) For ideal solution-

- \(\Delta G_{\text{mix}} = 0\)
- \(\Delta H_{\text{mix}} = 0\)
- both above
- none

No, the answer is incorrect.
Score: 0
**Accepted Answers:**
\(\Delta H_{\text{mix}} = 0\)

4) The Statement is "Entropy has one contribution in a solution. configurational entropy (S_{\text{conf}}) is on account of number of ways in which the atoms can be arranged on the lattice sites"
5) Find out the region where solution formation is impossible:

- a' to a
- a to b
- b to b'
- a' to b'

No, the answer is incorrect.
Score: 0
Accepted Answers:
False

6) Find out the corresponding plot for following condition-

\[ c < 0 \text{, Low T} \]

where,

\[ c = N_e Z \left[ \frac{1}{2} (E_{AA} + E_{BB}) \right] \]
7) Eutectoid Reaction is?

- \( \alpha \rightarrow \beta + \gamma \)
- \( \beta + L \xrightarrow{\text{cooling}} \gamma \)
- \( \alpha + \beta \rightarrow \gamma \)

No, the answer is incorrect.
Score: 0
Accepted Answers:

8) Peritectoid reaction is?

- \( \gamma \rightarrow \beta + L \)
- \( \alpha + \beta \rightarrow \gamma \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
9) The Statement "When two metals are mixed together they form an alloy if one metal is soluble in the other one in solid state. Therefore, an alloy is a solid solution of two or more metals"

- False
- True
- Partially True
- Cannot Say

No, the answer is incorrect.
Score: 0
Accepted Answers: True

10) The statement "If $\Delta H_{mix} > 0$, formation of like bonds (A-A or B-B) is preferred in a solid solution between metals A and B. This known as clustering"

- True
- False
- Cannot say
- None

No, the answer is incorrect.
Score: 0
Accepted Answers: True