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Unit 3 - Week-2

Assignment-2

The due date for submitting this assignment has passed. Due on 2018-02-21, 23:59 IST.
As per our records you have not submitted this assignment.

1) For some arbitrary reaction, the change in free energy is negative (DG< 0). Then, which one of the following statements is correct *1 point*

- (a) The reaction is spontaneous but it may or may not happen of its own.
- (b) The reaction is spontaneous and will happen of its own.
- (c) The reaction is non-spontaneous and will happen of its own.
- (d) None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a) The reaction is spontaneous but it may or may not happen of its own.

2) *1 point*

No, the answer is incorrect.
Score: 0

Accepted Answers:

3) By examining the schematic plots shown below, identify the correct answer. *1 point*

- (a) plot (a) represents H vs. T (K) plot, plot (b) represents C_p vs. T (K) plot and plot (c) represents S vs. T (K) plot.
- (b) plot (a) represents S vs. T(K) plot, plot (b) represents H vs. T(K) plot and plot (c) represents C_p vs. T(K) plot.
- (c) Plot (a) represents C_p vs. T(K), plot (b) represents S vs. T(K) and Plot (c) represents H vs. T(K) plot.
- (d) plot (a) represents C_p vs. T(K) plot, plot (b) represents H vs. T(K) plot and plot (c) represents S vs. T(K) plot.

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No, the answer is incorrect.
Score: 0

Accepted Answers:
(d) plot (a) represents C_p vs. T(K) plot, plot (b) represents H vs. T(K) plot and plot (c) represents S vs. T(K) plot.

4) *1 point*

- (a) 47300-47400 J
- (b) 77300-77400 J
- (d) 87300-87400 J
- (d) 97300-98000 J

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a) 47300-47400 J

5) *1 point*

- (a) Increase in term II but decrease in the term I.
- (b) Increase in the term I but decrease in term II.
- (c) Both the terms increase.
- (d) Both the terms decrease.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b) Increase in the term I but decrease in term II.

6) *1 point*

- + V
- -V
- +S
- -S

No, the answer is incorrect.
Score: 0

Accepted Answers:
-S

7) *1 point*

- +V
- -V
- +S
- -S

No, the answer is incorrect.
Score: 0

Accepted Answers:
+V

8) *1 point*

No, the answer is incorrect.
Score: 0

Accepted Answers:

9) *1 po*

No, the answer is incorrect.
Score: 0

Accepted Answers:

10 Q10 By carefully examining the schematic plot shown below for pure metal, identify the correct statement for specific heat capacity (C_P) at $T=T_m$. *1 point*

- (a) The specific heat capacity is zero at $T=T_m$.
- (b) The specific heat capacity is infinite at $T=T_m$.
- (c) The specific heat capacity is given by some finite value at $T=T_m$.
- (d) None of these.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b) The specific heat capacity is infinite at $T=T_m$.

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