

Form 1 (White)

Multiple Choice Questions

1-e	2-d	2-b	4-a	5-d	6-e	7-c	8-c	9-a	10-c
11-a	12-c	13-d	14-c	15-e	16-a	17-e	18-c	19-e	20-a
21-d	22-b	23-b							

Written Answer Questions

- $\Delta G^{\circ} = -13.45 \text{ kJ/mole}$.
 - Energy Charge = 0.85 (it is a ratio, no units)
- $\Delta E^{\circ} = 0.74\text{v}$ $\Delta G^{\circ} = -142.8 \text{ kJ.mole}$ 4.7 ATPs (most likely 4).

Form 2 (Yellow)

Multiple Choice Questions

1-c	2-e	3-d	4-b	5-a	6-b	7-a	8-c	9-a	10-e
11-c	12-b	13-b	14-c	15-d	16-c	17-e	18-c	19-b	20-a
21-d	22-b	23-e							

Written Answer Questions

- $\Delta G^{\circ} = -13.45 \text{ kJ/mole}$.
 - Energy Charge = 0.86
- $\Delta E^{\circ} = 0.74\text{v}$ $\Delta G^{\circ} = -142.8 \text{ kJ.mole}$ 4.7 ATPs (most likely 4).

Grade Distribution:

Average = 43 +/- 17.5 Highs = 84 Low = 15