



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**SENIOR CERTIFICATE/
NATIONAL SENIOR CERTIFICATE**

GRADE 12

LIFE SCIENCES P1

NOVEMBER 2020(2)

MARKS: 150

TIME: 2½ hours

Grade 12 Life Science Past Papers

Disha Experts



Grade 12 Life Science Past Papers:

X-kit FET Grade 12 LIFE SCIENCE, 2008 *Target XAT 2021 (Past Papers 2005 - 2020 + 5 Mock Tests) 12th Edition*
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subsequent Δh values $2 \text{ CO}_2 \text{ g} + \text{H}_2\text{O g} \rightarrow \text{C}_2\text{H}_2 \text{ g} + \frac{5}{2} \text{O}_2 \text{ g}$ $\Delta h = 94.5 \text{ kJ}$ $\text{H}_2\text{O g} + \text{H}_2 \text{ g} \rightarrow \frac{1}{2} \text{O}_2 \text{ g}$ $\Delta h = 71.2 \text{ kJ}$ $\text{C}_2\text{H}_6 \text{ g} + \frac{7}{2} \text{O}_2 \text{ g} \rightarrow \text{CO}_2 \text{ g} + 3 \text{H}_2\text{O g}$ $\Delta h = 283 \text{ kJ}$ $\text{C}_2\text{H}_6 \text{ g}$

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web thus for reaction 9 2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta H = 55.8 \text{ kJ}$ as shown note that the enthalpy change $\Delta H_{\text{products}} - \Delta H_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}}$

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