

## EMPIRICAL FORMULAS

### (Chemistry 11)

1) Find the empirical formulas for the following:

- |                      |                               |
|----------------------|-------------------------------|
| a) 15.9% B, 84.1% F  | f) 26.6% K, 35.4% Cr, 38.0% O |
| b) 87.5% Si, 12.5% H | g) 21.8% Mg, 27.9% P, 50.3% O |
| c) 43.7% P, 56.3% O  | h) 46.2% C, 7.69% H, 46.2% O  |
| d) 77.9% I, 22.1% O  | i) 3.66% H, 37.8% P, 58.4% O  |
| e) 77.7% Fe, 22.3% O | j) 50.5% C, 5.26% H, 44.2% N  |

### Answers:

- |                           |                                      |
|---------------------------|--------------------------------------|
| 1) a) $\text{BF}_3$       | f) $\text{K}_2\text{Cr}_2\text{O}_7$ |
| b) $\text{SiH}_4$         | g) $\text{Mg}_2\text{P}_2\text{O}_7$ |
| c) $\text{P}_2\text{O}_5$ | h) $\text{C}_4\text{H}_8\text{O}_3$  |
| d) $\text{I}_4\text{O}_9$ | i) $\text{H}_3\text{PO}_3$           |
| e) $\text{FeO}$           | j) $\text{C}_4\text{H}_5\text{N}_3$  |