

- Balance the following nuclear reactions and name the decay process occurring.

**Marks
6**

| Equation | Name of decay process |
|--|-----------------------|
| ${}^{15}_8\text{O} \rightarrow {}^{15}_7\text{N} + \square$ | |
| ${}^{238}_{92}\text{U} \rightarrow {}^{234}_{90}\text{Th} + \square$ | |
| ${}^{40}_{19}\text{K} + \square \rightarrow {}^{40}_{18}\text{Ar}$ | |