

| Question number | Answer | Notes | Marks |
|-----------------|---|--|-------|
| 1 (a) (i) | B (53) | | 1 |
| (ii) | D (131) | | 1 |
| (b) | Any two of - MP1 Beta is (moderately) ionising; MP2 Beta has a short range; MP3 idea that I-131 has a short half-life; MP4 idea that iodine is absorbed (easily) by the thyroid; MP5 (hence) reduces damage to healthy cells; MP6 (hence) does not penetrate out of the body; MP7 (therefore) kills (only) tumour cells; | Ignore I-131 is radioactive, it emits beta | 2 |

Total 4 marks