

Questions are for both separate science and combined science students**Q1.**

Radio waves and gamma rays both transfer energy.

- (a) Give **three** other similarities between radio waves and gamma rays.

1 _____

2 _____

3 _____

(3)

Both radio waves and gamma rays are used in medicine.

- (b) Give **one** medical use of gamma rays.

(1)

- (c) Explain why exposure to gamma rays can be harmful but exposure to radio waves is **not** harmful.

(2)

- (d) Some medical scanners produce radio waves at a specific frequency.

Explain how radio waves are produced at a specific frequency. **(HT only)**

(2)

(Total 8 marks)