

2 This question is about radiations in the electromagnetic spectrum.

radio waves	microwaves	infrared	A	ultraviolet	B	gamma rays
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(a) The names of two parts of the electromagnetic spectrum are missing.

Complete the table below, with the names of the missing parts.

(2)

	Name
A	
B	

(b) Which electromagnetic radiation is used for heating and night vision equipment?

(1)

- ☐ A radio waves
- ☐ B microwaves
- ☐ C infrared
- ☐ D ultraviolet

(c) Which electromagnetic radiation is used for cooking and satellite transmissions?

(1)

- ☐ A radio waves
- ☐ B microwaves
- ☐ C infrared
- ☐ D ultraviolet

(d) The list of electromagnetic radiations, from radio waves to gamma rays, is in order of

(1)

- ☐ A decreasing frequency
- ☐ B decreasing wavelength
- ☐ C increasing amplitude
- ☐ D increasing time period



(e) Exposure to excessive electromagnetic radiations can be harmful to the human body.

For **two** named types of electromagnetic radiation, describe

- a harmful effect
- how the risks of exposure can be reduced.

(4)

Name of radiation

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Name of radiation

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(Total for Question 2 = 9 marks)



P 3 8 7 5 9 A 0 5 3 2