

- 1 What is a tumour and how do they form?
- A tumour is a mass of cells that has formed by uncontrolled growth and division of cells (mitosis).
- They often form as a result of a mutation in the genes

[2 marks]

- 2 What are the two types of tumours and the differences between them?
- Benign tumours stay in one place often within a membrane and are not cancerous
- Malignant tumours can spread around the body as cells break off. Is cancerous.

[3 marks]

3 Smoking is a risk factor for a range of disease. Name three of them.

Lung disease, lung cancer, mouth cancer, stomach cancer, cervical caner etc

[3 marks]

- A patient with a tumour on the skin of his neck attended a hospital clinic and was told that it was probably due to ultraviolet light exposure. The doctors removed the tumour, but 4 months later, they found similar it had developed in his lungs and liver.
- a) Was his tumour benign or malignant, and how can you tell?
- Malignant because it was able to spread around his body

[2 marks]

- b) What do we call the tumours that developed in his lungs and liver? How do they form?
- Secondary tumours
- They form when cells break off from the main tumour and spread around the body e.g. in the blood stream

[2 mark

- c) How could he have reduced the risk of developing this cancer?
- Spent less time in the sun or sun beds
- Covered himself in more sun lotion or clothes

[2 marks]

- 5 Some genes are linked to cancers. Give an example of such as gene and the cancer/s it is linked to.
- The BRCA gene is linked ovarian and breast cancers

[2 marks]

[Total 15 marks]