



Week 10 - Post Lecture Quiz (2022)

✓ 10/10 points

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Question 1

✓ 1/1 point



What is cancer?

- | | | |
|----------------------------------|-----------------------------|-------------|
| <input checked="" type="radio"/> | uncontrolled cell division | Your answer |
| <input type="radio"/> | B tumour supressing protein | |
| <input type="radio"/> | C gene expression | |
| <input type="radio"/> | D binary fission | |



Question 2

✓ 1/1 point



What is the main cellular event that leads to cancer?

- | | | |
|----------------------------------|----------------------------|-------------|
| <input type="radio"/> | A faithful DNA replication | |
| <input type="radio"/> | B DNA synthesis | |
| <input checked="" type="radio"/> | mutation | Your answer |
| <input type="radio"/> | D gene expression | |



Question 3

✓ 1/1 point



What are the major checkpoints that cells must pass in the cell cycle?

A	the G0/G1 and G1/G2 checkpoints
B	the G1/G2 and G1/S checkpoints
	the G1/S and G2/M checkpoints Your answer
D	the G2/M and G0/G1 checkpoints



Question 4

✓ 1/1 point



A replicated eukaryotic chromosome is composed of which of the following?

A	two homologous chromosomes held together at the centromere
	two sister chromatids held together at the centromere Your answer
C	four homologous chromosomes held together at the centromere
D	one chromosome with a centromere



Question 5

✓ 1/1 point



At what point does replication of DNA occur during the cell cycle?

A	G0
B	G1
	S Your answer
D	telophase



Question 6

✓ 1/1 point



Which of these activities occurs during the process of cytoplasmic division?

	cytokinesis	Your answer
B	condensation of DNA into chromosomes	
C	separation of sister chromatids in the cytoplasm	
D	movement of chromosomes into alignment on the metaphase plate	



Question 7

✓ 1/1 point



What percentage of genetic similarity exists between cells produced by mitotic division?

A	0%	
B	25 or 75%	
C	50%	
	100%	Your answer



Question 8

✓ 1/1 point



At what stage of the cell cycle is DNA first found in its condensed form, which is known as a chromosome?

	during prophase only	Your answer
B	during prophase and metaphase	
C	during the cell cycle	
D	during mitosis until late telophase	



Question 9

✓ 1/1 point



Oncogenes are caused by which of the following?

- | | |
|---|--|
| A | mutations in most genes |
| | mutations in genes that normally inhibit the progression of a cell through the cell cycle Your answer |
| C | mutations in the promoter region of genes |
| D | mutations in the exon region of genes |



Question 10

✓ 1/1 point



Why does the cell cycle include checkpoints?

- | | |
|---|---|
| A | to ensure proper growth has been achieved |
| | to ensure there are no errors in the DNA Your answer |
| C | to carry out DNA synthesis |
| D | to stimulate cell division |

Enter your test instructions here...