Biology	Name:	
Worksheet over pp 253-257	Date:	Hour:
1. What two things are important to the health of ar	n organism?	
2. What does the book compare starting the cycle t	co?	
3. What is the abbreviation for cyclin-dependent ki	inases?	
4. What four cyclin/CDK combinations are shown	n in Figure 9.11?	
5. What does the stoplight mean in Figure 9.11?		
6. What signals the start of the cell cycle in G1 of		
- What signals the start of the cen eyele in G1 of	interphase:	
7. What does a checkpoint check for near the end	of the G1 stage?	
8. What happens if the spindle fibers fail their che	eckpoint?	
9. Define cancer:		

10.	How can cancer cells kill an organism?
11.	What stage do cancer cells spend less time in than normal cells?
12.	According to Figure 9.12, how can a medical professional find a detect a cancer cell?
13.	Which kind of organisms does cancer NOT occur in?
14.	The changes that occur in the regulation of cell growth of cancer cells are due to what?
15.	What happens when a repair system fails?
16.	Define carcinogen:
17.	What is the name of the agency that monitors carcinogens in our food?
18.	What chemical has been removed from old buildings to prevent cancer?
19.	Why is sunscreen recommended for everyone exposed to the Sun?
20.	Why does the risk of cancer increase with age?
21.	Why might cancer run in families?

22.	What is apoptosis?
23.	Describe an example of apoptosis in animal cells:
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	Where do we see apoptosis in the fall?
	What is a stem cell?
	What are the two types of stem cells?
	Once an egg is fertilized, approximately how many cells result? What did researchers do with adult stem cells in 1999?
 29.	What did researchers do with adult stem cells in 2000?
30.	Why are adult stem cells less controversial than embryonic stem cells?