

1. What do we call identical strands of a chromosome produced through the replication of the genetic material? *

- Chromatids
- Centromeres
- Centrioles
- Alleles

2. What is the role of mitosis? *

- Growth of an organism
- Repair of damaged cells
- Replacement of dead cells
- All of the above

3. A mass of cells, resultant of uncontrolled mitosis, that may be harmful to the organism in which they occur. *

- Tumour
- Malignant tumour
- Benign tumour
- Metastasis

4. The collective term used to refer to substances that cause cancer. *

- Chemicals
- Radiation
- Carcinogens
- Viruses

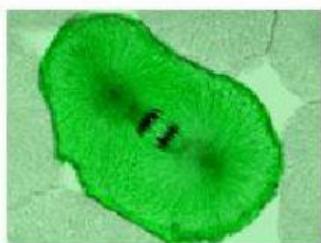
5. Which of the following is an early detection procedure for cancers? *

- Chemotherapy
- Mammogram
- Surgery
- Radiation

6. Up to 90% of cell's life is spent in... *

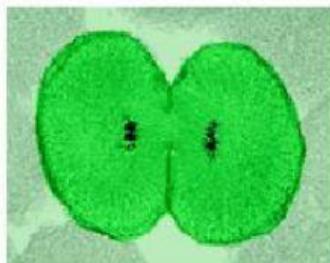
- Cytokinesis
- Mitosis
- Interphase
- The cell cycle

7. Refer to the diagram below and identify the stage of mitosis depicted. *



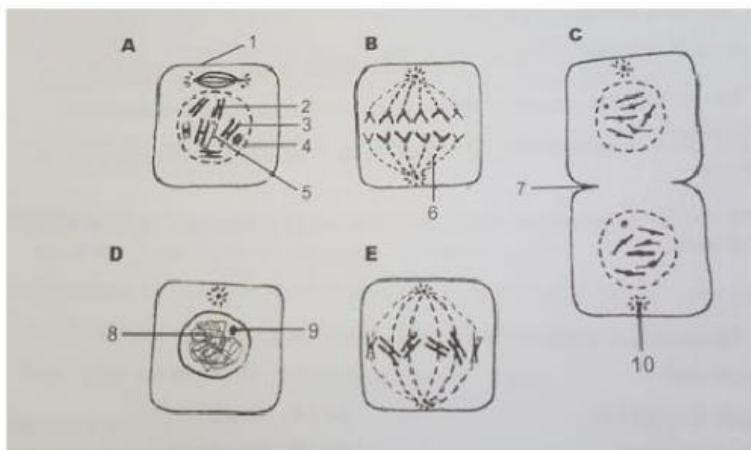
- Telophase
- Anaphase
- Metaphase
- Interphase

8. Refer to the diagram below and identify the stage of mitosis depicted. *



- Telophase
- Anaphase
- Metaphase
- Prophase

9. Study the following representations of the phases of cell division below. By making use of the letters only, arrange the phases into the correct sequence. *



- C, E, D, B, A
- C, B, E, A, D
- D, A, C, B, E
- A, E, B, C, D

10. Referring to the diagram provided above in question 9. The correct labels for parts 2, 4 and 8 respectively are... *

- centromere, nuclear membrane, chromatin network
- chromosome, spindle fibre, nucleus
- centromere, spindle fibre, chromosomes
- chromatid, nuclear membrane, nucleolus

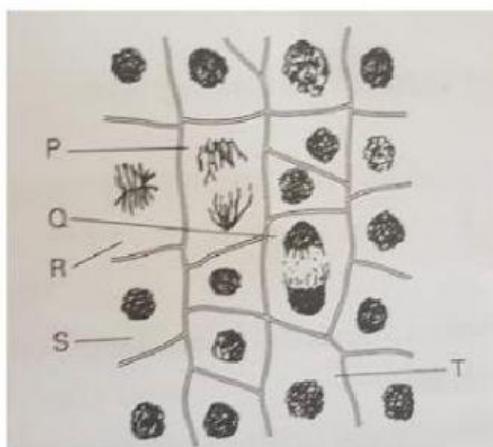
11. Referring to the diagram provided in question 9. The correct labels for parts 7, 9 and 10 respectively are... *

- cell wall, nucleus, pole
- invagination, nucleolus, centriole
- cleavage furrow, centromere, spindle fibre
- cell membrane, chromatin network, centriole

12. The role of the spindle in mitosis is... *

- to join two chromatids together
- to enclose the heredity information
- to attach to chromosomes, contract and pull the chromosomes to the poles
- to attach to the membrane and pull it towards the poles
- Other: _____

13. The diagram shows some plant cells in different stages of the cell cycle. Name the phases of cell division P, Q, R and S in that order. *



- prophase, metaphase, anaphase, late telophase
- anaphase, late prophase, early telophase, metaphase
- metaphase, telophase, prophase, anaphase
- anaphase, early telophase, metaphase, prophase

14. If a mouse has 20 chromosomes in the nucleus of a cell. How many chromosomes will the two cells that result from mitosis each have? *

- 10
- 40
- 20
- 22

15. Does mitosis constantly occur in cells? *

- yes
- no