Gr 10 Cell division

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

- ◯ Chromatids
- ◯ Centromeres
- ◯ Centrioles
- ◯ Alelles

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

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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? *

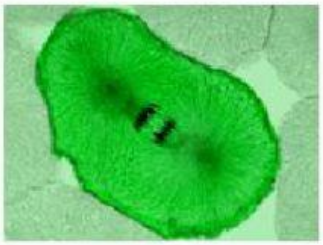
- ◯ Chemotherapy
- ◯ Mammogram
- ◯ Surgery
- ◯ Radiation

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

- ◯ Cytokinesis
- ◯ Mitosis
- ◯ Interphase
- ◯ The cell cycle

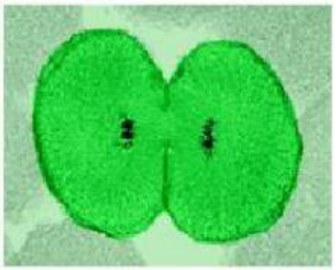
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7. Refer to the diagram below and identify the stage of mitosis depicted. *



- ◯ Telophase
- ◯ Anaphase
- ◯ Metaphase
- ◯ Interphase

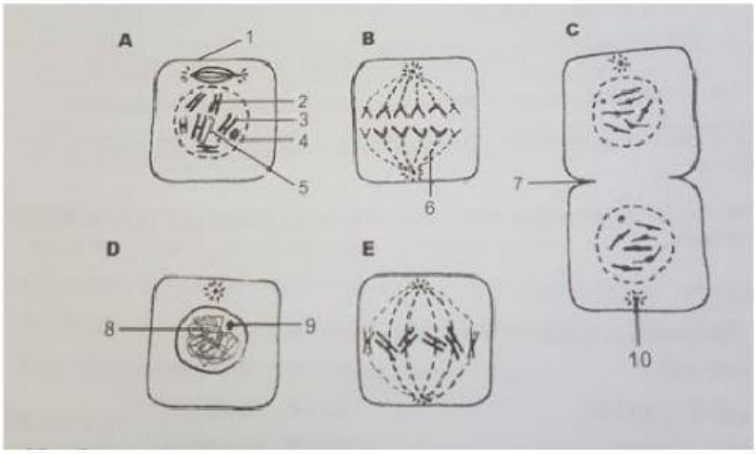
8. Refer to the diagram below and identify the stage of mitosis depicted. *



- ◯ Telophase
- ◯ Anaphase
- ◯ Metaphase
- ◯ Prophase

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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

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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... *

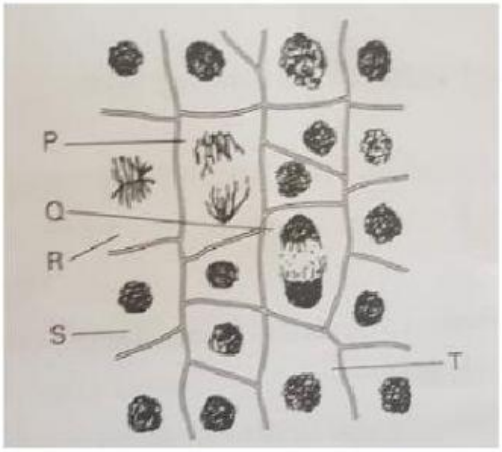
- ◯ cell wall, nucleus, pole
- ◯ invagination, nucleolus, centriole
- ◯ cleavage furrow, centromere, spindle fibre
- ◯ cell membrane, chromatin network, centriole

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: _____

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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

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