

Answer Key

Unit 2 Genetic Processes

Unit Preparation Questions (Assessing Readiness)

(Student textbook pages 154–7)

1. b
2. In both animal and plant cells: A–cell membrane
B–cytosol
C–mitochondrion
E–endoplasmic reticulum (smooth and rough)
G–Golgi apparatus
H–nucleus (or nuclear envelope)
L–nucleus (or nuclear envelope)
In plant cell only: I–central vacuole
J–cell wall (or membrane)
K–chloroplast
In animal cell only: D–ribosomes
F–vesicle
3. For efficient movement of materials the ratio of a cell's surface area to volume must stay within a range that permits diffusion to all parts of the cell within a short amount of time (to support the metabolic activity of the cell).
4. d
5. Nucleus (contains) → chromosomes (composed of) → DNA (which is made up of) → genes (which code for) → proteins
6. d
7. Students should draw a double helix and label any small piece as a gene.
8. a
9. c
10. Mitosis involves the division of the nuclear material in the nucleus and cytokinesis is the process that divides the cytoplasm (including all organelles).
11. During cell division, DNA is tightly coiled in chromosomes and looks “bunched.” The rest of the time, the DNA looks more like long, loose threads.
12. A–centrosome
B–chromosomes
C–spindle fibres
D–centromere
13. Daughter cells formed during cell division are genetically identical to the parent cell.
14. In plant cells, a cell plate is formed during cytokinesis and divides the cytoplasm into two. Animal cells are divided by a contractile ring rather than a cell plate.
15. A–interphase
B–growth and preparation (G1)
C–DNA replication
D–growth and preparation (G2)
E–mitosis
F–cytokinesis
16. Any two of: the DNA may be damaged; DNA replication may not have occurred; there were not enough nutrients to support cell growth; no additional cells of that type are needed; cell death may have been signalled
17. Sample answer: Skin cells have a short life span—skin is easily damaged and must often be replaced. Nerve cells have a long life span—these internal cells are rarely damaged and, once an organism is full size, there is no need to divide for growth.
18. Cancer results from uncontrolled cell reproduction and the lack of cell death triggered by errors in DNA.
19. Sample answer: The digestive system is made of organs including the stomach and small intestine, and tissues like muscle (which move food along) or epithelium (which line the tract). Muscle tissue is made of muscle cells and epithelial tissue is made of epithelial cells. Diagrams could look like the one that accompanies question 38 on student textbook page 437.
20. Cell differentiation describes the process by which a cell specializes to perform a specific function. Because they perform different jobs, muscle cells look very different from skin cells and nerve cells, for example. If cells didn't differentiate, they would all be generalists—they would be able to do all functions, but not very well.
21. Stem cells can specialize to become many types of cell. Other types of adult cells can only divide to produce cells identical to themselves.

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1. Understanding the eBook Genetic Processes Mhr Textbbok Answers
 - The Rise of Digital Reading Genetic Processes Mhr Textbbok Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Processes Mhr Textbbok Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Genetic Processes Mhr Textbbok Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Processes Mhr Textbbok Answers
 - Personalized Recommendations
 - Genetic Processes Mhr Textbbok Answers User Reviews and Ratings
 - Genetic Processes Mhr Textbbok Answers and Bestseller Lists
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 - Genetic Processes Mhr Textbbok Answers Enhanced eBook Features
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 - Highlighting and Note-Taking Genetic Processes Mhr Textbbok Answers
 - Interactive Elements Genetic Processes Mhr Textbbok Answers
- 8. Staying Engaged with Genetic Processes Mhr Textbbok Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetic Processes Mhr Textbbok Answers
- 9. Balancing eBooks and Physical Books Genetic Processes Mhr Textbbok Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetic Processes Mhr Textbbok Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Genetic Processes Mhr Textbbok Answers
 - Setting Reading Goals Genetic Processes Mhr Textbbok Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetic Processes Mhr Textbbok Answers
 - Fact-Checking eBook Content of Genetic Processes Mhr Textbbok Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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