

Gene Therapy Assessment

1. What is a process of replacing, engineering or regenerating human cells, tissues or organs to restore or establish normal function?
 - a. Gene therapy
 - b. Cell therapy
 - c. Regenerative medicine
 - d. Cell and gene therapy
2. In which type of cure does the reservoir disappear and the virus eliminated?
 - a. Sterilizing
 - b. Functional
3. Which type of gene therapy can target and kill HIV infected cells?
 - a. Genome editing
 - b. Gene replacement
 - c. Gene replacement (nonviral)
 - d. Immunotherapies
4. Blood forming stem cells (HSCs) used in clinical trials of blood cancer patients are taken from whom?
 - a. Patients before immune system destruction
 - b. Patients after immune system destruction
 - c. Donors with similar blood types
 - d. Donors related to patient
5. What is a main problem with immunosuppressive drugs?
 - a. They are not obtainable.
 - b. They present toxicity issues.
 - c. They facilitate new blood count problems.
 - d. They remove T cells.
6. When it comes to gene therapy, _____ is key.
 - a. Modifying
 - b. Precision
 - c. Stability
 - d. Editing
7. A key issue with clinical trials is trying to produce a high yield of modified cells.
 - a. True
 - b. False

8. Why is interrupting treatment essential?
- a. To allow HIV to kill unprotected cells
 - b. To obtain a high level of modified cell accuracy
 - c. To select for modified cells
 - d. a and c
9. Kick and kill is important in which:
- a. T cells become functional and have cell killing ability to suppress HIV replication.
 - b. T cells become renewed through antigen receptor T cells.
 - c. T cells target hematopoietic cells.
 - d. T cells become an unlimited source.
10. A functional cure may result, but clinical benefit would also help some patients greatly.
- a. True
 - b. False

Answer Key

1. C	<i>Answers can be found on slide 5</i>
2. A	<i>Answers can be found on slide 6</i>
3. D	<i>Answers can be found on slide 10</i>
4.A	<i>Answers can be found on slide 12</i>
5. B	<i>Answers can be found on slide 13</i>
6.B	<i>Answers can be found on slide 14</i>
7.A	<i>Answers can be found on slide 20</i>
8. D	<i>Answers can be found on slide 22</i>
9. A	<i>Answers can be found on slide 23</i>
10. A	<i>Answers can be found on slide 27</i>