

## 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

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