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

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