1. Graft-versus-host disease (GVHD) can be defined as:
   a. the rejection of a kidney by the body
   b. the rejection of a stent by the body
   c. when a graft placed into the spine does not heal properly
   d. a condition that is triggered when the host’s cell recognizes that the donor’s cell is foreign

2. The following three plasma protein systems are part of the second line of defense in the process of GVHD EXCEPT:
   a. kinin system
   b. clotting system
   c. complement system
   d. renal-hepatic system

3. The following are true regarding the complement system EXCEPT:
   a. it has no direct effect on GVHD
   b. it activates the complex cascade
   c. it can destroy pathogens directly
   d. it constitutes 10 percent of the total circulatory serum proteins

4. The following are true regarding the clotting system EXCEPT:
   a. it stops pain
   b. it stops bleeding
   c. it traps microorganisms
   d. it forms a fibrous meshwork

5. The following are true regarding the kinin system EXCEPT:
   a. it promotes vasodilation
   b. it augments inflammation
   c. it causes atrial tachycardias
   d. it increases capillary permeability

6. The diagnosis of GVHD is confirmed by:
   a. MRI reading
   b. biopsy and pathological testing of the patient’s cells
   c. serology and the results of a hematological blood test
   d. colonoscopy with the presence of bleeding and swelling

7. The treatment of GVHD primarily focuses on prevention. The following are methods of prevention EXCEPT:
   a. using unrelated, unmatched donor cells
   b. prophylaxis with immunosuppressive medications
   c. matching the donor and recipient as precisely as possible
   d. using undifferentiated cells, such as the cells from the blood of the umbilical cord, for the transplant whenever possible

8. The treatment of acute GVHD includes:
   a. corticosteroids
   b. antiviral therapy
   c. antifungal therapy
   d. antibiotic therapy

9. Acute steroid-resistant GVHD has all of the following characteristics EXCEPT:
   a. it has a mortality rate of higher than 90 percent
   b. no other therapies are tried if steroid therapy does not work
   c. patients should be evaluated for it within 14 days of the start of steroid treatment
   d. it is a serious complication resulting directly from the steroid therapy used to treat the GVHD

10. Despite prophylactic treatment to avoid GVHD there is still the chance that hematopoietic cell transplantation patients will develop GVHD. The percentage of patients that develops GVHD is:
   a. 25-30 percent
   b. 30-50 percent
   c. 40-60 percent
   d. 60-90 percent

Evaluation

1. I can understand the pathophysiology and etiology of graft-versus-host disease.
   a. strongly agree
   b. agree
   c. neutral
   d. disagree
   e. strongly disagree

2. I can describe the treatment goals of graft-versus-host disease.
   a. strongly agree
   b. agree
   c. neutral
   d. disagree
   e. strongly disagree

3. I can discuss the risks of current treatments and potential outcomes of graft-versus-host disease.
   a. strongly agree
   b. agree
   c. neutral
   d. disagree
   e. strongly disagree

4. The objectives relate to the overall goal of the article.
   a. strongly agree
   b. agree
   c. neutral
   d. disagree
   e. strongly disagree

5. The article is well-written and logically organized, and defines terms adequately.
   a. strongly agree
   b. agree
   c. neutral
   d. disagree
   e. strongly disagree