Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) For molecules separated by >20nm, which of the following physical forces have a dominant effect?
   - Electromagnetic forces
   - Van der Waals forces
   - Liquid resistance
   - Surface-water bonding

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Van der Waals forces

2) Desmosomes and hemidesmosomes belong to which class of cell junctions?
   - Tight junctions
   - Anchoring junctions
   - Communicating junctions
   - None of the above

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Anchoring junctions

3) Which among these cell adhesion molecules is Ca^{2+} independent?
   - Integrins
   - Cadherins
   - Selectins
   - Immunoglobulin-like receptors

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Integrins
   - Cadherins
   - Immunoglobulin-like receptors
   - N-CAMS

4) Which type of cell adhesion molecules are expressed on activated endothelial cells?
   - Integrin adhesion molecules
   - Integrins
   - Cadherins
   - None of the above

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Integrin adhesion molecules

5) Which of the following cells has the fastest migration rate?
   - Endothelial cells
   - Fibroblasts
   - Macrophages
   - Neutrophils

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Neutrophils

6) Increased cell speed when a cell is oriented towards the stimulus is called
   - Topophasia
   - Orthonaxis
   - Kinetosis
   - Hypoaxis

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Orthonaxis

7) Which of the following is not a function of a biomaterial?
   - Ensures tissue development in a 3-dimensional format
   - Maintains an unphysiological environment
   - Provides proper cell/tissue cues for development
   - Forms three dimensional scaffold

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Maintains an unphysiological environment

8) Which is not a challenge in bone tissue engineering?
   - Mechanical strength of the material
   - Stress shielding effect
   - Porosity
   - Conductivity of the scaffold

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - Conductivity of the scaffold

9) Which of the following is an approach to achieve vasculatization
   - In vivo pre-vascularization
   - In vivo pre-vascularization
   - Release of the angiogenic growth factors by cell demand
   - All of the above

   No, the answer is incorrect. Score: 0
   Accepted Answers:
   - All of the above

10) Which one of the following is a challenge in skin tissue engineering?
    - Achieving high mechanical strength
    - Conductivity of the scaffold
    - Foul adaptation
    - Scaffold must be hydrogel

    No, the answer is incorrect. Score: 0
    Accepted Answers:
    - Scaffold must be hydrogel