1. Can the changes in the gel architecture that result in making gel relaxation time close to that of viscoelastic tissues be made simultaneously with keeping the gel Young’s modulus constant? Explain.
2. Discuss the main features of osteogenic differentiation of stem cells sitting on modified gels of greater stiffness.
3. What changes in the gel architecture result in making gel’ relaxation time close to that of viscoelastic tissues?
4. Sketch the main steps of cell/ECM interaction in the cases of elastic and viscoelastic matrices.
5. Do stem cells sitting on the modified gels significantly increase their spreading and proliferation? Explain.