



**DEPARTMENT OF CIVIL ENGINEERING**  
**S.V. NATIONAL INSTITUTE OF TECHNOLOGY, SURAT**

**[Energy and Environmental engineering]**

**Assignment -06 (LCA & EIA)**

**Total 10 marks**

Q1.EIA is prepared for (1)

- a) Every specified polluting developmental project
- b) Every natural disaster to pre-access its adverse impacts on humanity and environment
- c) both (a) and (b)
- d) None of the above

Q2.EIA is intended to identify the environmental, social and economic impacts of a proposed development: (1)

- a) Prior to the decision to sanction a project is taken
- b) During the execution of a project
- c) After the execution of a project to assess its beneficiaries
- d) None of the above

Q3.The environmental impact assessment should include (1)

- a) Description of the project with location, design, size etc
- b) Description of its significant effects on environment and society
- c) Mitigating measures to reduce the possible adverse impacts
- d) All of the above

Q4. Life cycle analysis is cradle-to-grave analysis. Explain. (2)

Q5. Why is it important for engineers to use the LCA when designing products? (2)

Q6. Describe LCA process in the picture. Also, write down the possible environmental problems in each stage/phase. (3)

