Q.1 Answer the following questions in short. [18]
1. Explain about four P’s with respect to software.
2. What are the objectives of SCM process?
3. Define: Aesthetic and Continuous evolution with respect to web Application.
4. Why software change occurs?
5. What are design patterns? What are different categories of it?
6. What is baseline? Explain CCB and ECO.

Q.2 Answer the following questions.(Any Three) [18]
1. Explain about DRE and Make by Decision with example.
2. How web engineering is different than conventional Software engineering? Explain framework of Web engineering process framework.
4. What is relationship between human and effort? Explain it with PNR curve.

Q.3 1. Explain SCM process task: Change Control, Versioning, and Configuration Auditing. [6]

Or
1. Explain about SCM repository tools.
2. Gujarat Electricity Board would like to automate its billing process. Customers apply for a connection (domestic/commercial). EB staff take readings and update the system. Each customer required to pay charges monthly according to the rates set for the type of connection. Customers can choose to pay either by cash/card. A bill is generated on payment. Monthly reports are provided to the EB manager.

(i) Develop use case diagram for the specification above
(ii) For any two scenarios draw an activity and sequence diagram.
Q.4 Answer the following questions.

1. What is CMMI? Explain in detail about CMMI.
2. What is six sigma? Explain DMAIC methodology of six sigma.
   Or
2. What is six sigma? Explain DMAIC methodology of six sigma
3. Consider a project with following parameters: EI = 50, EO = 40, EQ = 35, ILF = 06, ELF = 04. Assume all weighing factors are average and compute the function points.