1   (A)   Do as directed :   6

   (i)   Define : Software Engineering.

   (ii)   Define : Software Portability.

   (iii)   Define : System Software

   (iv)   What is maintenance ?

   (v)   What is Unit testing ?

   (vi)   What is requirement analysis ?

   (B)   Attempt following : (any two)   12

   (i)   Explain spiral model with its advantages and disadvantages.

   (ii)   Explain characteristics of software.

   (iii)   Explain phase development process in detail.

2 (A) Answer the following : 5

    (i) What is product metrics ?

    (ii) Define SRS.

    (iii) What is design pattern ?

    (iv) What is functional requirement ?

    (v) What is object oriented design ?

(B) Attempt any two: 12

    (i) Explain types of requirements in detail.

    (ii) Explain role of management in software development.

    (iii) Explain general structure of SRS.

3 (A) Define following terms : 6

    (i) Error

    (ii) Blackbox testing

    (iii) Alpha testing

    (iv) Regression testing

    (v) Coding

    (vi) Driver and stub modules.

(B) Answer the following : (any two)　　12

　　(i)　Explain sample testing cycle.

　　(ii)　Explain structured programming.

　　(iii)　What is whitebox testing ? Explain any one technique for selecting cases for white box testing.

4　(A)　Answer the following :　　5

　　(i)　What is adaptive maintenance ?

　　(ii)　What is validation ?

　　(iii)　What is project management ?

　　(iv)　What is business process engineering ?

　(B)　Attempt any two :　　12

　　(i)　Explain COCOMO model.

　　(ii)　Explain risk management concept in detail.

　　(iii)　Explain characteristics of CASE tools.