1129
B.E. (Computer Science and Engineering)
Seventh Semester
Elective – II
CS-704A: Software Project Management

Time allowed: 3 Hours   Max. Marks: 50

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

I.   Attempt the following:-

   a) List any two schedule estimation metric.

   b) State W5HH principle.

   c) What are use case oriented metrics?

   d) List ISO 9126 quality factors.

   e) Can we change items in baseline?

   f) What is earned value analysis?

   g) What is formal technical review?

   h) Why do we need SCM repository?

   i) Is reverse engineering ethical? Comment.

   j) What is status reporting?   (10x1)

UNIT – I

II. a) What are different project stakeholders? Explain the project planning steps in detail.

   b) What are different software estimation metrics?   (2x5)

III. a) At what stage of software development, we use the 'use case-oriented metrics'. Explain in detail.

   b) What is empirical estimation?   (2x5)

IV. a) How do we refine the major tasks to prepare the time line charts? Illustrate using an example.

   b) What is earned value analysis?   (2x5)

UNIT – II

V. What is quality assurance? Explain the Software quality assurance plan in detail.   (10)

VI. a) Describe the various software quality assurance metrics.

   b) What are different software risks? Explain the RMMM plan in detail   (2x5)

VII. a) What are different software configuration items? How are these managed using baseline?

   b) Why do we need forward engineering after restructuring? Explain the economics of engineering.   (2x5)

x-x-x