Printed Pages: 3 **EIT-402**

(Following Paper ID and Roll No. to be filled in your Answer Books)	
Paper ID : 113402	**Roll No.**

B.TECH.

Theory Examination (Semester-VI) 2015-16

SOFTWARE ENGINEERING

Time : 3 Hours ***Max. Marks : 100***

Note: Attempt All the questions as per given instructions.

Section-A

1. Attempt all parts: (2×10 = 20)

(a) What is a software process? Explain.

(b) Discuss any two software characteristics.

(c) What is a context diagram? Explain.

(d) Elaborate any two characteristics of a good SRS document.

(e) Explain the role of function point analysis in project management.

(f) What is control flow graph? Explain.

(g) What do you mean by software quality?

(h) Define the reverse engineering.

(i) Explain the term 'Software Crisis'.

(j) What is a decision table? Explain.

Section-B

2. Attempt any Five Parts of the following: (5×10 = 50)

(a) Explain the software life cycle model. Compare the waterfall and evolutionary model with some example.

(b) Discuss the Halstead software sciences to measure size, development effort, and development cost of software product.

(c) What is software testing? Discuss the Unit Testing and Acceptance testing in detail. Also give the significance of Unit and Acceptance testing.

(d) Compare the module coupling and module cohesion. Discuss the various types of module coupling and module cohesion.

(e) Explain the types of COCOMO models and give phase wise distribution effort.

(f) What are the different types of maintenance that a software product might need? Discuss.

(g) Define CASE. What are the main advantages of the CASE tools? Discuss.

(h) Differentiate between error and failure. Which of the two is detected by testing? Justify your answer.

Section-C

In this section attempt any TWO questions: (2×15 = 30)

3. What do you mean by the software configuration management? Describe various software configuration management activities in detail.

4. What is CMM? Describe the various level of CMM also compare it with ISO 9001.

5. What is requirement engineering? Explain the various activities associated with software requirement engineering.