Printed Pages : 1 **Roll No.** | | | | | | | | | | | **CS-234**

M.TECH. (SEM–II)

CARRY OVER EXAMINATION 2016-17

PROCESS ENGINEERING

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

Note : *Be precise in your answer. In case of numerical problem assume data wherever not provided.*

1. **Attempt any Four parts of the following:** **4 × 5 = 20**

(a) Define software domain analysis.

(b) Give any two views in the system engineering process.

(c) State the role of core principals in software engineering.

(d) Discuss the steps required to initiate requirement engineering process.

(e) What radius indicates in spiral model?

(f) Give the five advantages in process engineering.

2. **Attempt any Two parts of the following:** **2 × 10 = 20**

(a) Explain analysis and design phases of S.D.L.C. with suitable example.

(b) Give any five features of real time implementation process model with example.

(c) Explain the process of optimization and V shape process model of the system.

3. **Attempt any Two parts of the following:** **2 × 10 = 20**

(a) The S.E.I. (Software Engineering Institute) has developed a comprehensive model predicated on a set of process engineering capabilities that should be present as organizations reach different levels of process maturity. Explain the model in detail.

(b) Explain in detail incremental process models and its kinds.

(c) List and explain in short the steps in architectural design process engineering.

4. **Attempt any Two parts of the following:** **2 × 10 = 20**

(a) Discuss the human factors that must exist among personal process and team process.

(b) What do you mean by contextual model? Explain the working of map model tracing.

(c) Discuss the guidance of backtracking process model with suitable example.

5. **Attempt any Two parts of the following:** **2 × 10 = 20**

(a) **Write shorts notes:**

(i) Six Sigma (ii) CMM

(b) Discuss the methodology which improves the different workflow modeling with example.

(c) What is ISO? State the requirements defined by ISO 9000. Also give the two examples.