

Con. 5808-10.

(REVISED COURSE)

(3 Hours)

GT-7680

[Total Marks : 100]

N.B. : (1) Question No. 1 is **compulsory**.

(2) Answer any **four** out of remaining **six** questions.

(3) Marks for **each** question are given in **brackets** at the **right** hand side.

- 1 A) Explain process and project metrics. (5)
- B) What are the projects best suited for agile methodology and why? (5)
- C) Identify the risks in web based application development. (5)
- D) When do you prototype? What are the outcomes of prototyping? (5)
- 2 A) Explain the steps in requirement engineering. (10)
- B). What do you understand by process maturity? Mention the activities in CMM level 4 and 5. (10)
- 3 A) How are efforts estimated? In which phase of development cycle effort estimation done? (10)
- B) What are the risks associated with delayed projects? How do project managers manage such risks? (10)
- 4 A) State the five major tasks in SCM. How is version control done? (10)
- B) Describe the activities done during ETR, Configuration Audit and status reporting. (10)
- 5 A) Explain cohesion and coupling and the purpose of modular design. (10)
- B) Relate the data flow and control flow diagram with an example case study of your choice. (10)
- 6 A). What are the advantages of test-driven development? (5)
- B) State Software quality factors. (5)
- C). Describe the different techniques in white box testing (10)
7. Write short notes on any two : (2 x 10)
- A) Security engineering
- B) Project scheduling and tracking
- C) System Testing.