

Con. 5654-05.

(REVISED COURSE)

PR-7643

(3 Hours)

[ Total Marks : 100

**N.B.** (1) Question No. 1 is compulsory.(2) Attempt any **four** questions out of remaining **six** questions.

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|----|-------------------------------|--|----|
| 1. | (a)                           | Explain McCall's Software Quality Factors. Prepare SQA plan for your dream project.  | 10 |
|    | (b)                           | Explain Incremental Model for software development with suitable example.  | 10 |
| 2. | (a)                           | Explain W5HH principle and critical practices in project management.   | 10 |
|    | (b)                           | Compute function point value for a project with following information domain characteristics :—                            | 10 |
|    |                               | No. of user inputs : 32  |    |
|    |                               | No. of user outputs : 60   |    |
|    |                               | No. of user inquiries : 24   |    |
|    |                               | No. of files : 8   |    |
|    |                               | No. of external inputs : 2   |    |
|    |                               | Assume that all complexity adjustment values are average.  |    |
| 3. | (a)                           | "Adding people to a late software project can make it later". Explain.   | 10 |
|    | (b)                           | Explain design heuristics for effective modularity.  | 10 |
| 4. | (a)                           | Explain Organization of SRS document.  | 10 |
|    | (b)                           | What do you mean by transform mapping ? Explain design steps which allow DFD to be mapped in specific architectural style. | 10 |
| 5. | (a)                           | Explain Smoke Testing. Compare Top-Down Integration Testing Versus Bottom-up Integration Testing.                          | 10 |
|    | (b)                           | What are software risks ? Compare reactive risk strategies versus proactive risk strategies. State typical RMMM plan.      | 10 |
| 6. | (a)                           | State elements of computer based system and explain Requirement Engineering Process.                                       | 10 |
|    | (b)                           | Explain Interface design principles. Develop user Interface for Internet-based polling booth public election.              | 10 |
| 7. | Write short note (any two) :— |  | 20 |
|    | (a)                           | COCOMO   |    |
|    | (b)                           | Software Architectural Styles  |    |
|    | (c)                           | CMM (Capability Maturity Model)  |    |
|    | (d)                           | Software Configuration Management.   |    |