AR–2523

Faculty of Engineering & Technology
M.C.A. Third Year Semester—III (C.G.S.) Examination
SOFTWARE PROJECT MANAGEMENT
(15540)
Paper—5 MCA 2

Time : Three Hours] [Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

(1) All questions carry marks as indicated.

(2) Answer **THREE** questions from Section A and **THREE** questions from Section B.

SECTION—A

1. (a) Explain incremental model and spiral model. Differentiate between them. 8

   (b) Elaborate the concept of software engineering. 6

OR

2. (a) What is software ? Explain characteristics of software. 7

   (b) Explain RAD model. 7

3. (a) Explain size-oriented metrics. 7

   (b) Explain LOC based estimation with an example. 6

4. (a) Explain defect removal efficiency. 6

   (b) What is software risk ? What are the different categories of risk ? 7

5. (a) What is the relationship between people and effort ? 6

   (b) What are the objectives of formal technical review ? How is it conducted ? 7

6. (a) Explain degree of rigor. 6

   (b) Explain software quality assurance. 7

SECTION—B

7. (a) Explain requirement management with traceability table. 6

   (b) Explain partitioning in software design. 8

OR

8. (a) Explain Requirements analysis. 7

   (b) What are design principles of software design ? 7

9. (a) Explain golden rules for interface design. 6

   (b) What is software architecture ? Write down its importance. 7

10. (a) Explain structured programming. 6

    (b) Explain interface design evaluation cycle. 7

11. (a) What are the different testing principles ? 6

    (b) What is the strategy of software testing ? 7

12. (a) Explain black box testing in detail. 7

    (b) Explain verification and validation. 6