

M.C.M. (Part—I) Semester—II Examination
SOFTWARE ENGINEERING—I
Paper—2 MCM 4

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Due credit will be given to neatness and adequate dimensions.

(2) Illustrate your answer wherever necessary with the help of neat sketches.

1. (a) Define software engineering and its types. Explain its characteristics. 8
- (b) Explain Linear Sequential Model with the help of suitable diagram. 8

OR

2. (a) Explain different types of software applications. 8
- (b) Explain the following :—
 - (1) Prototyping Model
 - (2) Spiral Model. 8
3. (a) Explain 4P's involved in management spectrum. 6
- (b) What is W³HH principle ? Explain. 6
- (c) Establish software metrics program. 4

OR

4. (a) Explain different types of metrics involved in software measurement. 10
- (b) Explain metrics for small organisation. 6
5. (a) Explain in brief objectives and scope of software project planning. 6
- (b) What do you mean by outsourcing ? Explain. 4
- (c) Give difference between reactive and proactive risk strategies. 6

OR

6. (a) Explain the following :—
 - (1) Empirical Estimation Model
 - (2) Cocomo Model. 8
- (b) Explain software project estimation in detail. 8
7. (a) Give the reasons why software are delivered late. Explain with example. 8
- (b) How will you define a task for software project to develop a project schedule ? 8

OR

8. (a) Explain the following concepts related to Formal Technical Review :—
- (1) Review meeting
 - (2) Review reporting and record keeping
 - (3) Review guidelines. 8
- (b) What do you mean by statistical software quality assurance ? 8
9. (a) Explain system modeling. 8
- (b) What do you mean by requirement engineering ? Explain. 8
- OR**
10. (a) Explain the following :—
- (1) Configuration audit
 - (2) SCM standard. 8
- (b) Explain different elements involved in computer based system. 8