

M.Sc. (Part—I) Semester—I (C.B.C.S. Scheme) Examination
COMPUTER SOFTWARE (NEW)
(Software Engineering and Software Testing)
Paper-1 MCSW 2

Time : Three Hours]

[Maximum Marks : 80

Note :—(1) All questions are compulsory.

(2) Use suitable data wherever necessary.

(3) Due credit will be given to neatness.

1. (a) What is system ? Explain its characteristics in detail. 7
- (b) Draw and explain layered model of software engineering. 7

OR

2. (a) Explain the various types of system. 7
- (b) Define system analyst. Explain the role and skills required for system analyst. 7
3. (a) Explain the spiral model with its six tasks region. 7
- (b) Explain RMMM plan in detail. 7

OR

4. (a) Explain the software process framework with its various umbrella activities. 7
- (b) Explain the processing of RAD model in brief. 7
5. (a) Explain the SCM process in detail. 7
- (b) Explain the various tasks involved in requirement engineering. 7

OR

6. (a) Define Requirement Engineering and describe the objectives of requirement analysis. 7
- (b) What is System Engineering ? Explain the concept of Product Engineering in detail. 7
7. (a) Explain components of effective modular design. 7
- (b) Explain the concept of transform and transaction mapping. 7

OR

8. (a) Explain the various architectural styles used in software mechanism. 7
- (b) Describe the golden rules used in user interface design. 7
9. (a) What is Software Testing ? Explain its testing objectives terms in detail. 6
- (b) Explain V-model with suitable diagram. 6

OR

10. (a) Explain the fundamental test process included in Software testing. 6
(b) Explain the difference between QA and Testing. 6
11. (a) State and explain the different phases in Software Testing. 6
(b) Explain the following terms :
(i) Risks
(ii) Entry and Exit criteria. 6

OR

12. (a) Explain the Integration Testing in detail. 6
(b) What are the roles and responsibilities included in Software Testing Plan ? Explain. 6