



K20P 0557

Reg. No. :

Name :

IV Semester M.C.A. (Including Lateral Entry Stream) Degree
(C.B.S.S.-Reg./Supple./Imp.) Examination, May 2020
(2014 Admission Onwards)
MCA4C20 : SOFTWARE ENGINEERING

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. Each question carries **three** marks. (10×3=30)

1. What is feasibility study ? What are the contents contain in the feasibility report ?
2. What are the merits of incremental model ?
3. Mention the drawbacks of spiral model.
4. Mention any two non-functional requirements on software to be developed.
5. What is known as SRS review ? How is it conducted ?
6. Distinguish between expected requirements and excited requirements.
7. What is W5 HH principle ?
8. Write short notes on empirical estimation models.
9. Why testing is important with respect to software ?
10. What is stress testing ?
11. State the objectives and guidelines for debugging.
12. Distinguish between verification and validation.

P.T.O.



SECTION – B

Answer **all** questions. **Each** question carries **ten** marks. (5×10=50)

13. a) Discuss in detail Boehm's spiral model for software life cycle and discuss the various activities in each phase. 10

OR

b) i) Define software process. State the important features of a software process. 5

ii) Explain the different phases involved in waterfall life cycle. 5

14. a) Explain different metrics for size estimation with their advantages and disadvantages. 10

OR

b) Explain the different types of risk associated with software development and also discuss on possible ways of assessing and controlling the risks. 10

15. a) What is software quality management ? Discuss various software quality attributes. 10

OR

b) What is the need of SCM in software engineering ? Explain SCM process. 10

16. a) Explain coupling and cohesion design concepts. 10

OR

b) Briefly discuss component level design for web apps. 10

17. a) What do you mean by system testing ? Explain the strategies of system testing along with the example. 10

OR

b) List and explain the aspects of implementation that are important to software engineering, with suitable figure. 10