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**

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