

(DMCA201)**Total No. of Questions :18]****M.C.A.DEGREE EXAMINATION, MAY– 2018****Second Year****SOFTWARE ENGINEERING****Time :3 Hours****Maximum Marks :70****SECTION - A****Answer any three questions. (3 x 15 = 45)**

- Q1)** Explain Spiral model with suitable example. Also explain how it differs from Software Prototyping model.
- Q2)** a) Draw the Data Flow Diagram with different levels for withdraw and deposit of money in a bank.
b) What is software prototyping? Explain its significance in software engineering with example.
- Q3)** What is importance of User Interface? Explain user Interface design rules with examples.
- Q4)** Explain Black box testing and White box testing. Explain any one technique to carry out each testing.
- Q5)** a) Describe the differences between project metrics and process metrics.
b) Describe four P's for Project Management.

SECTION - B**Answer any five questions. (5 x 4 = 20)**

- Q6)** Explain incremental model for system development.
- Q7)** Write about functional and Nonfunctional requirements.
- Q8)** Describe Different Quality standards.
- Q9)** Explain in detail the behavioral models of a software system.
- Q10)** Draw database design model.
- Q11)** Describe the steps to find cyclomatic complexity using flow graph.
- Q12)** Differentiate alpha testing and beta testing.
- Q13)** Explain data dictionary in brief and where it is used.

SECTION - C

Answer all questions. (5 x 1 = 5)

Q14) Define unit testing.

Q15) What is software product?

Q16) What is software quality?

Q17) Define cohesion.

Q18) What is meant by risk management?



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