Register Number: ……………………..

MCA DEGREE EXAMINATIONS: APRIL 2014

Fifth Semester

MASTER OF COMPUTER APPLICATIONS

MCA519**:** Software Project Management

Time: Three Hours   **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Define Software project management.
2. How does ISO differ from CMM?
3. What is a work package?
4. What is a domain process?
5. Differentiate between function and feature points.
6. What are the disadvantages of using LOC as a size measure?
7. What are the types of powers vested with a project manager?
8. State the characteristics of an organization.
9. List any four important risks associated with software.
10. What is reliability?

PART B (5 x 16 = 80 Marks)

11. a) (i) State and explain the project management skills. (10)
    (ii) Explain the PDCA cycle. (6)

    (OR)

    b) (i) Explain the capability maturity model (CMM) in detail. (10)

    (ii) Explain the waterfall model for software development, highlighting its (6) advantages and disadvantages.

12. a) Explain the process of creating a work breakdown structure in detail.

    (OR)

    b) Explain the process of project planning in detail.

13. a) (i) Explain the various models and their levels in COCOMO. (10)
    (ii) Explain Wideband Delphi model in detail. (6)

    (OR)

    b) (i) Explain how function points are used to estimate the size of software. (12)
    (ii) State any six risks in software estimation. (4)

14. a) (i) What are dependencies? Explain the various software dependencies with examples. (10)
    (ii) Write notes on responsibility assignment matrix. (6)

    (OR)

    b) (i) Explain about the various organization structures with a neat diagram. (12)

    (ii) Explain how resource leveling is done. (4)

15. a) (i) Discuss about Boehm's risk management model. (8)
    (ii) Explain the steps in risk management plan. (8)

    (OR)

    b) (i) Explain in detail about fault forecasting and prevention. (8)

    (ii) Explain about software reliability plan. (8)

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