805

MCA-17

June - Examination 2017

MCA IIIrd year Examination

Software Engineering

Paper - MCA-17

Time : 3 Hours] **[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A $8 \times 2 = 16$

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1) (i) Define Cardinality and Modality.

(ii) Name Software quality attributes.

(iii) Draw the symbol use to represent relationship in E-R Diagram.

(iv) List advantages of Modules Sharing.

(v) What is Beta Testing?

(vi) State the need of Software Maintenance.

(vii) What is Software evolution?

(viii) Write the basic COCOMO equation to calculate "Effort Applied".

Section - B $4 \times 8 = 32$

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2) What is Decision Tables? Explain with suitable example.

3) Explain incremental process model. Justify that it is appropriate for business software system but less appropriate for real time systems.

4) What do you understand by data dictionary? Where and how it is used?

5) How are coupling and cohesion related? Give example.

6) What is the need of DFD (Data Flow Diagram)? Write some rule to draw a DFD.

7) Write short note on Regression Testing.

8) What is Risk Analysis and Management? State its importance.

9) Explain the prototyping model with their advantages and disadvantages.

Section - C

$2 \times 16 = 32$

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

10) What is system? Differentiate between System Engineering and Software Engineering. List and describe characteristics of good software.

11) What is Re-engineering? How it is different from Reverse Engineering? Explain.

12) Why do we need Software review? Describe its types in detail.

13) Discuss in detail about:

    (i) Verification versus Validation

    (ii) Feasibility Study

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