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Total No. of Questions : 09]

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Paper ID [MC402]

(Please fill this Paper ID in OMR Sheet)

MCA (Sem.- 3rd & 4th)

SOFTWARE ENGINEERING (MCA-402)(N2)

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Attempt any **One** question from each sections A, B, C & D.
- 2) Section - E is **Compulsory**.

Section - A**(1 × 10 = 10)**

Q1) What are the component processes in a software process? Describe the purpose of each.

Q2) What are software metrics? What is the role of metrics in project management.

Section - B**(1 × 10 = 10)**

Q3) (a) Discuss the scope of software planning. Explain the objectives behind it.

(b) What is static code analyzer?

Q4) (a) What is incremental model? Discuss the problems with incremental model.

(b) Why requirement analysis is done?

Section - C**(1 × 10 = 10)**

Q5) Discuss the various phases of design process.

Q6) What are the different metrics of procedural design? Discuss the relevance of each.

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Section - D**(1 × 10 = 10)**

Q7) Differentiate between the following:

- (a) Unit Testing and Integration Testing.
- (b) White Box and Black Box Testing.

Q8) What is the use of testing? What are the various testing strategies? Discuss the relevance of it.

Section - E**(10 × 2 = 20)**

Q9) a) Briefly explain various security features of Software quality.

- b) How documentation facilitates maintenance.
- c) Define the relevance of data dictionary?
- d) What is boundary testing?
- e) What is a procedural design?
- f) Define cost estimation?
- g) Distinguish between verification and validation.
- h) Distinguish between cohesion and coupling.
- i) What is meant by risk estimation?
- j) What is system analysis?

