

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

MCA (Sem. - 3rd)
SOFTWARE ENGINEERING

SUBJECT CODE : MCA - 402

Paper ID : [B0114]

[Note : Please fill subject code and paper ID on OMR]

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**.
- 3) Use of Non-Programmable **Scientific Calculator** is allowed.

Section - A

(1 × 10 = 10)

- Q1)** Discuss in detail the components and desired characteristics with respect to software process.
- Q2)** Discuss in detail strengths and weaknesses of minimum three software process models.

Section - B

(1 × 10 = 10)

- Q3)** Discuss in detail cost estimation models.
- Q4)** Explain in detail problem analysis and requirements specification.

Section - C

(1 × 10 = 10)

- Q5)** Compare various design methodologies used in object-oriented design.
- Q6)** What is software design? What is its need? How design of software related to evaluation of software? Categorize software design.

Section - D

(1 × 10 = 10)

- Q7)** What are various testing strategies? Discuss them.
- Q8)** Write note on white box and black box testing.

J-726 [8129]

P.T.O.

Section - E**(10 × 2 = 20)****Q9)**

- a) What are applications of waterfall model?
- b) What problems are likely to arise if two modules have high coupling?
- c) What are the advantages of developing the prototype of a system?
- d) What is software sizing?
- e) What is risk?
- f) What is the role of data dictionary?
- g) Can we have inheritance without polymorphism? Explain.
- h) Will exhaustive testing (even if possible for very small programs) guarantee that the program is 100% correct? Justify your answer.
- i) Define the terms fault and failure.
- j) What is the need of metrics in software?



a2zpapers.com