Punjab Technical University M.C.A Computer Aplications

SOFTWARE ENGINEERING (MCA - 402 (N2))

MCA (Sem.-3rd)

Time : 03 Hours
Maximum Marks : 60

Paper ID [MC402]

(Please fill this paper ID in OMR sheet)

Instruction to Candidates:

1) Attempt any one question from each Section - A,B,C & D.

2) Section - E is compulsory

Section – A
(1 * 10 = 10)

Q1) What are the various parameters which define the quality of software? How it can be measured?

Q2) Discuss the limitations of software process models. Which according to you is the best model of software development? Justify your answer.

Section - B
(1 * 10 = 10)

Q3) When is cost estimation done? Discuss the COCOMO model along with the parameters defined in it.

Q4)

(a) What is the need of software planning? Explian the objectives of sofware planning.

(b) What are principles of structured analysis?

Section - C
(1 * 10 = 10)

Q5) Discuss odject oriented concepts in details.

Q6)

(a) What5 are the various design methodologies?

(b) What does abstraction in software design provides.

Section - D
(1 * 10 = 10)

Q7) Differentiate between the following.

(a) Unit Testing and Integarton Testing.

(b) White Box Testiong and Black Box Testing.

Q8) Why testing is neccesary phase of software development? Discuss the relevance of various types of testing.

Section - E
(10 * 2 = 20)

Q9)

a) Why there is need of stastical quality assurance?

b) What is need of design methodoliges?

c) Define the term Internal documentation.

d) What are evolutionary process model users?

e) What is purpose of DFD?

f) What is the role of metrices in the software development.

g) List some software design objectives?

h) What is software equation?

i) What is the use of linear process models?

j) Define Prototyping