Ajay Kumar Garg Engineering College, Ghaziabad

Department of MCA

Sessional Test-2

Course: MCA   Semester: V
Session: 2017-18   Section: MCA-1 & 2
Subject: Software Engineering   Sub Code: NMCA-512
Max Marks: 50   Time: 2 hour

Note: Answer **all** the sections.

Section-A

A. Attempt **all** the parts.   (5 X 2 = 10)

   1. Enlist various steps of requirement engineering.
   2. Which ISO standard is applicable for software?
   3. State Software Quality Assurance (SQA).
   4. What is the difference between conceptual and technical design?
   5. What is the purpose of metric and measurement?

Section-B

B. Attempt **all** the parts.   (5 X 5 = 25)

   6. Why is SRS also known as the blackbox specification of system? Also describe   the desirable characteristics of good SRS.
   7. "A Network based course registration system for your University". Develop an ERD and level 1 DFD for the above.
   8. What do you mean by total quality management? Discuss Mqcauls Quality model in detail.
   9. Compute function point value for a project with the following domain characteristics:

Functional Units	Weighting factor
No. of I/P = 30	4
No. of O/P = 62	5
No. of O/P = 24	4
No. of files = 8	10
No. of files = 2	7

Assume that all the complexity adjustment values are average.

10. What is the concept of function oriented software design? List some advantage of using this approach.

Section-C

C. Attempt all the parts.   (2 X 7.5 = 15)

11. What do you understand by requirement elicitation and analysis? Discuss various techniques of requirement elicitation in detail.
12. Explain various types of coupling and cohesion methods of module dependency.