Marks: 80Marks

NOTE: I) Question no.1 is compulsory
    II) Attempt any 4 out of the remaining questions
    III) Use of calculator is allowed.

Q.1 (a) Consider the database application with following information: 10 Marks
It has 5 screens with 5 views each and 6 data tables for 3 servers and 4 clients. It may generate 2 reports of 5 sections each from 6 data tables for 2servers and 3 clients. There is 10% reuse of object points. Developers experience and capability in the similar environment slow. The maturity of organization in terms of capability is also low. Calculate the project point count, new object points and effort to develop such a project.

(b) Discuss Software Requirement specifications.   10 Marks

Q.2 (a) Explain RAD model and Spiral model with advantages and disadvantages.   8Marks

(b) What is meant by software reliability? Explain any two reliability growth model.

Q.3 (a) Explain Fact Finding Technique.   8 marks

(b) Explain Mc Call's software quality model in detail.   7 Marks

Q.4 (a) Consider a software project with 8 tasks T1-T8.Duration of 8 tasks in   8 Marks
weeks are 10, 25, 15,10,15,8,15,10 respectively.T2 and T3 can start when T1 is complete.T4 can start when T2 and T3 are complete. T5 and T6 can start when T4 is complete. T7 can start when T5 and T6 are complete. T8 can start when T7 is complete. Assuming above description answer the following questions.
    a) What is the latest start time for T6?
    b) What is the slack time for T2 and T3?
    c) Which tasks are on critical path?

(b) Explain in brief the relation between People and Effort.   7 Marks

Q.5 (a) . Consider a project with the following functional units: 8 marks
Number of User inputs = 30
Number of User outputs = 42
Number of User enquiries = 08
Number of User files = 07
Number of External Interfaces = 06
Assume that all complexity adjustment values are moderate. Compute the function points for the project.

(b) Short Notes on cost benefits analysis.   7 Marks

Q.6 (a) What is software maintenance cost? Explain types of Maintenance.   8 Marks

(b) Explain how Formal technical review is conducted. Explain how FTR   7Marks
helps in software quality assurance.

Q.7   Write a short notes on: (Any Three)   15 Marks
a)Structured Analysis
b)HIPO chart
c)Warnier orr Diagram
d)Degree of Rigor