1. Answer the following in brief: 12
   (1) Discuss in brief about object oriented programming practice in context to software maintainability and productivity.
   (2) What do mean by terms: error, fault and failure?
   (3) According to you, list reasons why software are delivered late.
   (4) Is debugging different from testing? Justify.
   (5) Explain Unit Testing in brief.
   (6) Explain terms Verification and Validation with context to Quality Assurance.

2. (a) Discuss Event Driven programming practice in detail. 6
    (b) Discuss White Box Testing in detail. Can it identify all types of errors? Justify.

OR

    (b) Explain various types of system testings in detail. 6
    (c) What is importance of Inspection for Quality Assurance? 2
3 (a) Discuss single variable model for effort estimation. List it's limitations.
(b) List and briefly explain different risk items. What is risk assessment? What is risk mitigation? How can risk be controlled?

OR

(b) Suppose you are appointed as a Project Manager for some XYZ project. Explain activities that you are supposed to carry out to manage the project.

4 Answer the following in detail: (any two)
(a) Define terms: LOC and FP. Compare them based upon advantages and limitations.
(b) Discuss Acceptance Testing in detail.
(c) Explain how Task network help in Scheduling the software project.
(d) Discuss various types of team structures with their applicability to various types of project.