[3 Hours] [Marks : 80]

Please check whether you have got the right question paper.

N.B: 1. Question No. 1 is compulsory.
2. Attempt any 3 from remaining questions.
3. Assume suitable data if required.

1. a. Discuss functional and Non-Functional requirements. **5**

b. Explain the relationship among scope, schedule and budget? **5**

c. What is Project? What are the attributes of a project? **5**

d. Compare PERT and CPM **5**

2. (a) Explain how Gantt-chart can be used for planning and controlling small projects with suitable example? What are the limitations of Gantt-Chart? **10**

(b) What are the advantages of including milestones in the WBS? Why should the WBS be deliverable oriented? **10**

3. (a) What is Agile methodology? Explain SCRUM. **10**

(b) Explain the different types of testing? **10**

4. (a) What do you mean by Project Charter and Plan? Are they different? **10**

(b) Suppose you are the project manager of a large software development project. Mention at least three reasons for your project delay. What are the risks associated with project delay? Perform Risk assessment and prepare RMMM plan for the same. **10**

5. (a) What is Function Point Analysis, explain in detail? What are its benefits in engineering process? **10**

(b) What are the PMBOK Areas? **10**

6. (a) Explain Mc Call's Quality factors? **10**

(b) Explain in detail 4P's of project management. **10**