

B3.1-R5 : SOFTWARE PROJECT MANAGEMENT

NOTE :

1. Answer question 1 and any FOUR questions from 2 to 7.
2. Parts of the same question should be answered together and in the same sequence.

Time : 3 Hours

Total Marks : 100

1.
 - (a) Mention the principles of Software Engineering.
 - (b) How does software differ from the artifacts produced by other engineering disciplines ?
 - (c) Explain the relationship between Scope, Time, Cost and Quality with respect to project management.
 - (d) What is the role of WBS (Work Breakdown Structure) in project management ?
 - (e) Write short notes on :
 - (i) Milestones of project.
 - (ii) Deliverables of project.
 - (f) With a neat sketch, explain the flow of change management.
 - (g) List out various scrum practices as carried out by the organization.

(7x4)
2.
 - (a) Enlist and explain various effort estimation techniques.
 - (b) What do you mean by Gantt Chart ? Explain with an example. Also, enlist the applications of the same.
 - (c) What is risk identification ? Describe the difference between risk components and risk drivers

(6+6+6)
3.
 - (a) Explain the ISO standards in detail.
 - (b) What do you mean by the term "Software Quality" ? Mention the attributes of software quality. Explain the process of "Change Logs" in Quality management.

(9+9)
4.
 - (a) What do you mean by the term Causal and Pareto Analysis ? How is it carried out ? Mention the advantages and disadvantages of Pareto Analysis.
 - (b) What do you understand by software configuration ? What is meant by software configuration management ? How can you manage software configuration (only mention the names of the principal activities involved) ?

(9+9)
5.
 - (a) What is the importance of defect-tracking tools in quality management ? Explain any one such tool.
 - (b) Explain why adding manpower to an already late project may not help to put it back on schedule ?
 - (c) Which are the various common categories of project risk. Explain in detail.

(6+6+6)

6. (a) Write short note :
- (i) Defect Tracking in Project Management.
 - (ii) Risk Mitigation and Management.
- (b) During project scheduling why is it desirable to break down each task into smaller tasks ? What is the desirable granularity to which tasks should be broken down ?
- (9+9)**
7. (a) Suppose you are developing a software product in the organic mode. You have estimated the size of the product to be about 1,00,000 lines of code. Compute the nominal effort and development time.
- (b) Mention the difference between staffing and direction in project management.
- (c) What is 3-point time tracking ? Explain the importance of the same. How is 3-point tracking carried out ?

(9+4+5)

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