

**[5155]-26**  
**M.E. (Computer Engineering)**  
**SOFTWARE PROJECT MANAGEMENT**  
**(2008 Pattern) (Semester -II) (Elective -IV)**

*Time : 3 Hours]*

*[Max. Marks : 100*

*Instructions to the candidates:*

- 1) Answers to the two sections should be written in separate answer books.*
- 2) From section-I, Answer (Q1 or Q2) and (Q3 or Q4)*
- 3) From section-II, Answer (Q5 or Q6) and (Q7 or Q8)*
- 4) Neat diagram must be drawn whenever necessary.*
- 5) Figures to the right indicate full marks.*
- 6) Assume suitable data, if necessary.*

**SECTION -I**

- Q1)** a) Discuss the need for project management, activities involved in project management and benefits out of it. **[8]**
- b) Explain major challenges in project management and how to overcome it. **[8]**
- c) State what is meant by issues in a project? Give example of a typical issues-log used in a project? **[9]**

OR

- Q2)** a) Enlist and explain in detail the characteristics associated with project. **[8]**
- b) How to meet the organization expectation by software team. **[8]**
- c) Explain the significance of software project management with its activity. **[9]**
- Q3)** a) List out typical five risks associated with a software project and their mitigation steps. **[9]**
- b) Explain the tools and methods used for software project planning. **[8]**
- c) How the risk analysis help in project management. **[8]**

OR

- Q4)** a) Discuss different software quality factor. [9]
- b) Write a short note (any two) [16]
- i) Project Management Practices
- ii) Risk Assessment
- iii) Work break down Structure

**SECTION -II**

- Q5)** a) Explain the role of stakeholders in project management. [8]
- b) Explain how project performance can be improved through qualitative analysis. [8]
- c) Explain aspects helping in designing critical platforms for success story of projects. [9]

OR

- Q6)** a) State what are the typical sections which are included in a project management plan. [8]
- b) Who are the stakeholders of an IT project? Elaborate the aspects to be considered for them while project management. [8]
- c) Explain the estimation using function point analysis. [9]
- Q7)** a) Explain different metrics used in the project management. [9]
- b) Enlist and explain fourteen general system characteristics used as basis in the calculation of value adjustment factor. [16]

OR

- Q8)** a) Discuss the software measurement with function points. And also explain use of function point. [9]
- b) Write a short note (any two) [16]
- i) Assessing project viability
  - ii) Project control
  - iii) Configuration management

