

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No .....

**MSE-201**  
**M.E./M.Tech., II Semester**  
**Examination, June 2017**  
**Software Project Management**

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.  
 ii) All questions carry equal marks.

1. a) Differentiate between software projects and infrastructure projects. What are the specific problems with software projects? 7  
 b) What do you understand by project management? Explain the need for software project management. 7
2. a) Explain the various activities covered by software project management. 7  
 b) Describe with an example how the effect of risk on project schedule is evaluated using PERT. 7
3. a) Explain EVA for project tracking. Give definitions and formula for PV, EV, AC, SV, CV, SPI, CPI, BAC, EAC, ETC. You have a project to be completed in 12 months and total cost of project is \$100,000. Six months have been passed (and schedule says that 50% of work should be completed). Total money spent on the project is \$60,000. But, on a closer look you find that only 40% of work is completed so far. What is SV, CV, SPI, CPI and EAC for this project? Is this project on schedule and within budget? 7

MSE-201

PTO

[2]

- b) Differentiate the purpose of using Gantt Chart and Tracking Gantt Chart. 7
4. a) Explain with diagrammatic illustration the project management life cycle. 7  
 b) Risk management is the area that tries to ensure that the impact of risk on cost, quality and schedule be minimal. Justify the statement. What is decision tree analysis in context to Risk Management? 7
5. a) Why is Risk Management important in a project? What are the common causes and effects of software project risks? 7  
 b) What are the software development modes in COCOMO? Give formula for effort/schedule estimation in basic COCOMO. 7
6. a) List the factors that are involved in making a team. Explain the characteristics. 7  
 b) Explain in detail about creating the framework for monitoring and control. 7
7. a) Explain two tools/techniques for Risk Analysis. What are the four techniques for Risk Resolution? 7  
 b) Explain Software project management standards. 7
8. Explain the following: 14  
 a) Modern Project Profiles  
 b) Modern Process Transitions

MSE-201

\*\*\*\*\* 692