Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)

Sixth Semester B. Tech.
(Computer Science and Engineering)

Summer – 2016

Course Code: CSU604

Course Name: Software Project Management

Time: 2 Hrs. 30 Min. **Max. Marks: 60**

Instructions to Candidate

1) All questions are compulsory.
2) Assume suitable data wherever necessary and clearly state the assumptions made.
3) Diagrams/sketches should be given wherever necessary.
4) Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
5) Figures to the right indicate full marks.

1	**Solve any Two**	12
	a) Justify the statement "Software Project management is layered Technology"	
	b) Explain W5HH principle and software myths	
	c) What are four P's of software project management? Explain	

2		**Solve any Two**	**12**
	a)	What are various software risks? Explain briefly.	
	b)	What are software planning activities? Explain any one in detail	
	c)	Explain the SQA plan in relation to software quality.	
3		**Solve any Two**	**12**
	a)	Define scheduling of a project and how task network help in scheduling.	
	b)	What is SCM? Explain its five tasks in detail.	
	c)	Why is software architecture important in software project management? Explain	
4		**Solve the following**	**12**
	a)	What is meant by transaction mapping? Discuss various design steps for transaction mapping.	
	b)	List out three "golden rules" and discuss various design principles that allow the user to maintain control.	
5		**Solve the following**	**12**
	a)	Explain Unit Testing and Black Box Testing in brief.	
	b)	Explain verification and validation in detail	

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1.		Solve any two	
	a)	What are Management myths and reality?	**06**
	b)	Which are key process areas that should be achieved at each process maturity level?	**06**
	c)	Describe the incremental model in detail.	**06**
2.		Solve any two	
	a)	What are Causes of defects and their origin for software projects?	**06**
	b)	Which are measures of software quality?	**06**

	c)	Which are four different approaches to the software sizing problem?	06
3.		Solve any two	
	a)	Define Four different degrees of rigor for project.	06
	b)	Describe task network for concept development.	06
	c)	Give a set of guidelines for formal technical reviews.	06
4.	a)	What is software architecture? Why is architecture important?	06
	b)	Which are basic principles for software design?	06
5.	a)	Which are notations used to represent the design? Explain each in brief.	06
	b)	Describe Top-down integration testing.	06

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6) (Other special instruction, if any)

1. Attempt any two of the following

a) Explain prototyping model in software process model in detail. **06**

b) Describe software myths in detail. **06**

c) Compare RAD model with spiral model in software process models. **06**

2. Attempt any Two of the following

a) Explain the RMMM plan in detail. **06**

b) Describe size-oriented metrics and function-oriented metrics in detail. **06**

c) Explain the following terms :- **06**
   i) Measuring quality
   ii) Defect Removal efficiency

3. Attempt the following

a) What is Formal Technical Reviews? Explain meaning and significance of Formal Technical Reviews. **06**

b) Distinguish between Process Indicators and Project Indicators. **06**

4. Attempt the following

a) What is requirement analysis? Explain it in detail. **06**

b) Explain task analysis and modeling in user interface design **06**

5. Attempt the following

a) Explain white box testing with the help of basis path testing. **06**

b) What is cyclomatic complexity? How to compute cyclomatic complexity? Explain any one example. **06**