

**School of Computer Engineering, KIIT University**  
**Mid-Term Examination Feb, 2015**

Time: 2 Hours

Full Marks: 50

*Answer 6 (Six) questions including Q.1 which is compulsory*

1.	<b>Answer any 5(Five) questions.</b>		2 x5
(a)	Distinguish between Software Product Development and Outsourced projects.		
(b)	What are the desirable characteristics of well defined objectives of Projects ?		
(c)	How can one infer whether a project has been successful ?		
(d)	What is meant by Project Portfolio management?		
(e)	What are the advantages and disadvantages of <i>Pair Programming</i> ?		
(f)	Differentiate between <i>objective-driven</i> and <i>product-driven</i> project		
2.	(a)	Discuss the characteristics of <i>Projects</i> .	4
	(b)	Discuss the activities covered by Software Project Management	4
3.	(a)	Identify the important characteristics of software development projects which make these harder to manage compared to other types of projects; say for example, a building construction project.	4
	(b)	Explain the major activities carried out by a software project manager and the order in which these are carried out.	4
4.	(a)	Explain the following terms used for cost-benefit analysis of projects (i) Payback period                      (ii) Net profit (iii) Return of Investment      (iv) Net present value	4
	(b)	With the help of an example, discuss how Decision Trees can be used in Cost Benefit Analysis	4
5.	(a)	Explain and differentiate between Waterfall & Prototyping models.	4
	(b)	Describe the different ways of estimating Software development effort	4
6.	(a)	Discuss what is <i>management</i> with reference to the <i>activities</i> which are covered by it.	4
	(b)	Explain the <i>step wise activities</i> in the planning of projects.	4
7.	Write short notes on <b>any two</b> of the following		4 x2
	(a)	COCOMO	
	(b)	Agile Methods	
	(c)	Spiral Model	
	(d)	Circumstances for Build or Buy decision of Software Product.	