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GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER- V• EXAMINATION - WINTER 2015

Subject Code: 2650020 Date: 08/12/2015 **Subject Name:** Software Project Management (SPM) Time: 10.30 AM TO 01.00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** (a) Explain the major activities carried by Software Project Manager and the order **07** in which they are carried out. **(b)** Explain various steps involved in step wise Project planning with neat diagram 07 **07** 0.2 Discuss the various cost benefit evaluation techniques in brief. (a) State the disadvantages of waterfall model and also state how these 07 **(b)** disadvantages are overcome by agile model. **(b)** What is dangle in an activity network? Explain with an example. 07 0.3 Discuss the role of cost estimation in software development project. Briefly **07** explain COCOMO model for cost estimation. Describe with an example how the effect of risk on project schedule is 07 **(b)** evaluated using PERT. OR **Q.3** State the general resources required for Software Projects and also explain how 07 they are scheduled. Explain the following: **(b)** [a] Grantt chart 04 [b] RAG reporting 03 Explain different types of contracts and explain different stages in contract **Q.4 07 (b)** Explain Herzberg's two-factor theory of motivation. **07** OR 0.4 Calculate the earliest start and completion dates of the activity using the **07** forward pass of the Critical path method for the following project details and draw the activity network at the completion of the forward pass. Clearly indicate the steps followed in the calculation.

Activity ID	Activity Description	Duration(weeks)	Precedents
A	Hardware Selection	6	
В	Software Design	4	
С	Install Hardware	3	A
D	Code and test software	4	В
Е	File take on	3	В
F	Write User Manuals	10	

G	User trainings	3	E,F
Н	Install and test	2	C,D
	systems		

(b) Discuss what is activity on arrow network with an example.

07

OR

Q.5	(a) (b)	Write down the stages of team formation model. Is line of code a good measure of software estimation? Justify.	07 07
Q.5	(a) (b)	OR a) Discuss the various techniques which are used to enhance Software Quality	
