End Term Test 50 minutes.   Dec. 3rd/4th 1997

Question	%
Q1	35
Q2	25
Q3	20
Any two (2) of	
Q4, Q5, Q6, Q7	2 * 10
Total	100

Answer questions: **Q1**, **Q2**, **Q3**, and any two of **Q4** through **Q7** – extra questions will not be marked.

CLOSED BOOK AND NOTES – One 8 ½ x 11 aid sheet allowed.

Please write legibly – unreadable answers are not answers.

NOTE: Allocate your time wisely. Spend approximately half a minute per mark.

THE FOLLOWING QUESTION (Q1) IS MANDATORY AND WORTH 35%.

Q1: The *simon* project provided ample opportunity to exercise the lessons you learned or should have learned from the course. List **some** of those software engineering principles, suggestions, tools, techniques, approaches, homilies, and platitudes (collective referred to as software nostrums) that you and your team applied or should have applied during your development of the *simon* system. For each nostrum, define it, briefly describe its importance and how you applied or failed to apply it, and how the nostrum's application helped or would have helped you achieve project goals. Your answer will be judged on your demonstrated understanding of the nostrum and its relevance to the entire software engineering discipline.

THE FOLLOWING QUESTION (Q2) IS MANDATORY AND WORTH 25%.

Q2: As an expert software project management consultant, you have been given an opportunity to market your skills to the president of a software company with more dollars than sense, but he knows that his projects are desperately in need of a "better way." Prepare a point form presentation of the software audit that you propose to do to evaluate the effectiveness of his company's current approach to software projects. Each point should explain what you are going to investigate and why.

THE FOLLOWING QUESTION (Q3) IS MANDATORY AND WORTH 20%.

Q3: Your company is about to release their **major** software product to their **most important** client. You have been asked to perform the last minute checks that should be done before the product is actually shipped. You have the authority to delay the delivery if you believe the product is "not ready for prime time." What checks would you perform and why?

ANSWER TWO (2) OF Q4 through Q7 – EACH WORTH 10%.

Q4: Why is *version control* an important issue in the development of large software systems?

Q5: What are the major *problems* that make software maintenance difficult?

Q6: Describe some of the factors that make the development of *large software* more difficult that the development of *small software*.

Q7: Describe White Box and Black Box testing. Which do you feel is more effective in discovering errors?.

DEFINITIONS

Nostrum *nos'trum*, n. any secret, quack, or patent medicine; and favourite remedy or scheme.

Homily *hom'i-li*, n. a plain expository sermon, practical rather than doctrinal; a hortatory discourse.

Platitude *plat'i-tūd*, n. flatness; a dull commonplace or truism; an empty remark made as if it were important.