

APPLICATION FOR QUALIFYING EXAMINATIONS

To the Graduate Council:

In the opinion of the Department of Computer Science

or Group in _____
(Use this space if group of departments)

Mr. Howard Sturgis
(Mr., Miss, or Mrs.) (Name of student)

(Address of student)

is ready to proceed to the qualifying examinations for the degree of Doctor of Philosophy.

The proposed field of study is Operating SYStems

Professor B. Lampson chiefly in charge of research

The subjects upon which the applicant should be held for examination are:

Operating Systems

Logic and Recursive Function Theory

Proposed committee members to conduct the qualifying examinations (Please include persons outside the major field representing the subject for examination, as well as those in the major):

Martin Graham (Chairman)

Butler Lampson

James Morris

Manuel Blum (SSCS)

Stephen Cook

OR

Approved: Graduate Adviser

Committee for Department
or Group of Departments

R M Karp
(Signed)

(Signed) W. Kahan

(Signed) J. Morris

Date 3/31/70

(Signed) R. Karp

OPERATING SYSTEMS

OBJECTIVES

SCHEDULING AND SWAPPING ALGORITHMS

MEMORY MAPPING AND PROTECTION SCHEMES

INPUT - OUTPUT

USER INTERFACES

PHYSICAL DRIVERS

FILE SYSTEMS

NAMEING

PROTECTION

PROCESSES AND TRAFFIC CONTROL

PERFORMANCE CRITERIA

BASIC LOGIC AND RECURSIVE FUNCTION THEORY

COMPLETENESS THEOREM FOR FIRST ORDER PREDICATE CALCULAS

SKOLEM-LOWENHEIM THEOREM

GODEL INCOMPLETENESS THEOREM FOR FORMAL NUMBER THEORY

CHURCH'S THEOREM

WEAK HERBRAND THEOREM, PAPER BY DAVIS AND PUTNAM

DEFINE AND PROVE EQUIVALENT :

μ - RECURSION

WITH PRIMATIVE RECURSION

WITH ADDITION AND MULTIPLICATION

TURING COMPUTABILITY

PROVE CHURCH'S THEOREM USING HALTING PROBLEM