

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For the following qualifications :-

M.Sc.

Inf Science GS.0: General Computer Studies

COURSE CODE : INSTGS.0

DATE : 21-MAY-02

TIME : 10.00

TIME ALLOWED : 3 hours

02-C0779-3-30

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TURN OVER

S.0: General computing studies

Answer **THREE** questions.

1. Although personal bibliographic software has been available now for some years it is still not widely used by students. How would you try to encourage more people to use such software? Illustrate your answer with reference to any specific packages with which you are familiar.
2. 'Internet search engines are great for recall, but awful for precision.' Do you agree? Discuss, with particular reference to the mechanisms of fundamental types of current Internet search engines.
3. Explain, with examples, how binary storage in a computer can be used to represent a wide range of real-world data to a user or application. What are the critical factors involved in achieving this translation effectively?
4. Explain what is meant by the term 'rule-based system' when discussing expert systems. Outline three separate techniques which could be used to enhance the effectiveness of a rule-based expert system and identify briefly how specifically they might help a system's performance.
5. What is meant by the term 'network topology'? Explain the basic network topologies which might be used in a local area network, and the advantages and disadvantages of each type.
6. Discuss the factors involved in the design of a successful website. What aspects of design do you consider to be most important, and why?
7. Discuss the considerations which are relevant to the selection of image formats for digital images. Give examples of how intended use and/or material might affect choice of format.

END OF PAPER