

Higher Information Systems

2006 q.23b Expert Systems Classical Expert Systems

Companies involved in extracting mineral deposits such as oil and iron ore make use of a range of computer-based information systems, including decision support systems and expert systems.

b. The PROSPECTOR expert system was developed for use by mining companies. Describe this expert system in terms of its *category*, *domain*, and *main characteristics*. **(4)**

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Expert systems are used in a wide range of subject domains. Describe the *domain*, *category* and *main characteristics* of the DENDRAL expert system. **(4)**

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Research into the use of expert systems in medicine started in the early 1970's and produced a number of 'classical' expert systems, including INTERNIST, MYCIN and ONCOCIN.

a. Explain how the INTERNIST and MYCIN expert systems differ from ONCOCIN in terms of their classification. **(1)**

b. The ONCOCIN expert system was developed to be a clinical decision support system. Distinguish between an expert system and a decision support system in terms of their purpose within the field of medicine. **(2)**

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b. The STRIPS expert system was developed in the early 1970s. Describe this expert system in terms of category and main characteristics. **(3)**

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Describe the MYCIN expert system in terms of its *category*, *domain* and *main characteristics*.