Questions 6

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Question 1

What is the main purpose of Expert Systems?

Question 2

What is the main difference between conventional computer programs and production systems (rule–based systems)?

Question 3

Why a production system model was used to implement the first rule–based expert systems?

Question 4

What types of knowledge are used by neural networks and by rule–based systems? What kinds of systems are they with respect to the type of knowledge they use?

Question 5

What are the main components of a rule–based system?

Question 6

Describe the phases of designing an expert system? What term is used to call the whole process?

Question 7

What are the main areas of application of ES according to Waterman (1986)?

Question 8

Why is knowledge acquisition often referred to as the ES 'bottleneck'?

Question 9

Why do many people say they will not trust a 'robo-doc' medical diagnosis expert system?

Question 10

Describe at least 3 advantages that expert systems offer organisations that would otherwise have to employ human experts.