



BOWEN UNIVERSITY IWO, OSUN STATE
COLLEGE OF COMPUTING AND COMMUNICATION STUDIES
COMPUTER SCIENCE PROGRAMME
B.SC. DEGREE SECOND SEMESTER EXAMINATION SESSION: 2022/2023
COURSE TITLE: EXPERT SYSTEMS
COURSE CODE: CIT 438 COURSE CREDIT: 2 UNITS
INSTRUCTION: Answer any four questions TIME ALLOWED: 2 HOURS

Question One

- a. What is an expert system? (4Marks)
- b. With the aid of diagram, explain the human factors in the expert system development teams. (10Marks)
- c. What are the features of expert system? (6Marks)

Question Two

- a. What is Knowledge Engineering? (4Marks)
- b. Discuss the major parts of the expert system architecture. (8Marks)
- c. Differentiate between Expert systems and conventional programs (8Marks)

Question Three

- a. With the aid of diagram explain Architecture of an Expert system. (12Marks)
- b. Discuss the structure of knowledge engineering process. (8Marks)

Question Four

- a. With the aid of diagram explain the Expert System Development Life Cycle (14Marks)
- b. A knowledge engineering language is a sophisticated tool for developing expert systems. Discuss. (6Marks)

Question Five

- a. What is Knowledge-representation? (4Marks)
- b. Differentiate between Knowledge and Representation (8Marks)
- c. Discuss the level of abstraction of knowledge from data (8Marks)

Question Six

- a. What do you understand by the term Natural Language Interface? (6Marks)
- b. Natural language can be processed by computers through speech recognition, speech synthesis, text-based pattern matching or gesture interaction. Discuss (14Marks)