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By K B Hemanth Raj

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ARTIFICAL INTELLIGENCE

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2017 -2018)

SEMESTER – V

Subject Code **17CS562** IA Marks **40**

Number of Lecture Hours/Week **03** Exam Marks **60**

These Questions are being framed for helping the students in the "FINAL Exams" Only (Remember for Internals the Question Paper is set by your respective teachers). Questions may be repeated, just to show students how VTU can frame Questions.

- **ADMIN**

Module 3

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1. What are key issues which needs to be addressed by non-monotonic reasoning system? Explain. (6-Marks) (5a) (June/July 2018)

2. Briefly explain the motivation for fuzzy logic. (4-Marks) (5b) (June/July 2018)

3. Explain how semantic networks are used in representation and reasoning. (6-Marks) (5c) (June/July 2018)

4. Explain non monotonic logic and default logic with example. Which are the two common kinds of non-monotonic reasoning defined in these logics? (6-Marks) (6a) (June/July 2018)

5. State Baye's theorem. How it is used in statistical reasoning? (4-Marks) (6c) (June/July 2018)

6. Write a short note on Frames. (6-Marks) (6c) (June/July 2018)

7. Define Frame. State the baye's theorem and explain the notations used. (6-Marks) (5a) (Dec.2017/Jan.2018)

8. Write a note on Justification based Truth Maintenance System (JTMS). (10-Marks) (5b) (Dec.2017/Jan.2018)

9. Write a note on closed world assumption. (6-Marks) (6a) (Dec.2017/Jan.2018)

10. Explain Bayesian network. (10-Marks) (6b) (Dec.2017/Jan.2018)

11. What is non-monotonic reasoning? Explain different subtypes of Non- monotonic reasoning in brief.

12. Explain certainty factors and rules corresponding to MYCIN expert system.

13. Explain Dempster Shafer theory in detail by a mechanism for performance of combinational scenarios in a simple diagnosis problem.

14. With an example describe in detail semantic net and partitioned semantic net.

15. Explain frames sets and instances with an example of ML-Baseball Team.
