

R07**Code: R7320505**

B.Tech III Year II Semester (R07) Supplementary Examinations December/January 2015/2016

ARTIFICIAL INTELLIGENCE & NEURAL NETWORKS

(Computer Science and Engineering)

(For 2008 regular admitted batch only)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 What is artificial Intelligence? Explain in detail about the "Laws of thoughts" Approach.
- 2 (a) Explain breadth-first search strategy and illustrate with an example.
(b) Explain the idea behind bidirectional search.
- 3 (a) Compare and contrast forward and backward reasoning.
(b) Discuss in detail about resolution.
- 4 (a) Why and what programming languages lack in deriving fact?
(b) Discuss in detail about compositionality property.
- 5 Describe about the characteristics of neural networks in detail.
- 6 (a) Explain in detail about analysis of pattern mapping networks in feed forward neural networks.
(b) Explain in detail about three basic functional units. Why are they called functional units?
- 7 Derive the capacity of the discrete Hopfield model.
- 8 (a) What is competitive learning neural network? Explain.
(b) Discuss on recognition tasks by competitive learning neural networks.
