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Total No. of Printed Pages: [1]

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B.Tech. (ECE) (Semester –8th)
ARTIFICIAL INTELLIGENCE
Subject Code: BECED1-823
Paper ID: [18111347]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- (a) Explain the term ‘knowledge representation’.
- (b) Explain back propagation.
- (c) Explain type 1 vs Type 2 errors in AI.
- (d) How adversarial search is different from adversarial search?
- (e) Describe decision tree in AI.
- (f) What do you understand by the term Artificial Intelligence.
- (g) What is object classification?
- (h) Differentiate between supervised and unsupervised learning.
- (i) Explain various Applications of AI.
- (j) Discuss the term Image segmentation.

Section – B

(5 marks each)

- Q2. Describe Computer vision in AI.
- Q3. What are the advantages of Gradient descent?
- Q4. What is meant by first order logic in artificial intelligence.
- Q5. What is the difference between RNN and LSTM networks.
- Q6. Describe various applications of deep learning to NLP.

Section – C

(10 marks each)

- Q7. What is Machine learning. How does it work.
- Q8. How is uncertainty measured in AI?
- Q9. What is Heuristic search techniques in AI?