PAPER ID-311541

Roll No:

B.TECH
(SEM I) THEORY EXAMINATION 2020-21
ARTIFICIAL INTELLIGENCE FOR ENGINEERS

Time: 3 Hours   *Total Marks: 100*
Note: **1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.   **Attempt *all* questions in brief.**

Q no.	Question	Marks	CO
a.	What is meant by ethical approach?	2	1
b.	Define AI.	2	1
c.	Differentiate between data and information.	2	2
d.	What is data clustering?	2	2
e.	List any 2 applications that use speech recognition.	2	3
f.	What is parsing in NLP?	2	3
g.	Define neuron.	2	4
h.	What is the biggest advantage of deep learning? Support your answer.	2	4
i.	List any 2 uses of computer vision technology.	2	5
j.	Define pixel.	2	5

SECTION B

2.   **Attempt any *three* of the following:**

a.	Discuss the future and evolution of AI in detail	10	1
b.	Discuss different stages of data processing.	10	2
c.	Explain the speech recognition system in detail.	10	3
d.	Explain The Universal Approximation Theorem.	10	4
e.	Discuss the advantages & challenges of face recognition system	10	5

SECTION C

3.   **Attempt any *one* part of the following:**

a.	What is computational intelligence? Explain n brief.	10	1
b.	How artificial intelligent systems are different from traditional systems? Discuss with example.	10	1

4.   **Attempt any *one* part of the following:**

a.	What is Data visualization? Explain in detail.	10	2
b.	Write short notes on Classification of data	10	2

5.   **Attempt any *one* part of the following:**

a.	What is Machine translation? How is it helpful for differently abled persons?	10	3
b.	What are chatbots? Explain its advantages.	10	3

6.   **Attempt any *one* part of the following:**

a.	What is neural network? Discuss recurrent neural network in detail	10	4
b.	How deep learning mimics human brain? Explain its limitations.	10	4

7.   **Attempt any *one* part of the following:**

a.	Discuss various applications of Ai in real world.	10	5
b.	Write short notes on Object Recognition and Intelligent Robots	10	5