Dr Vivek

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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- April 2019

Ph.D

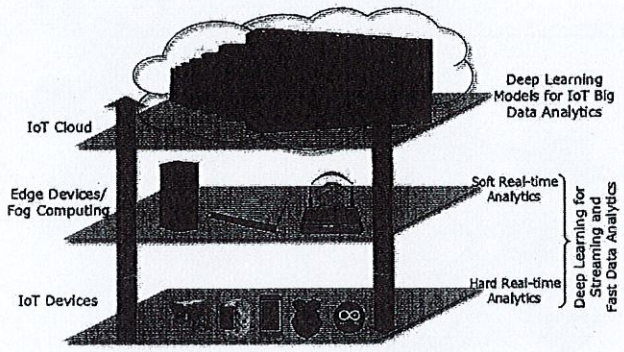
COURSE CODE: 18M1WCI332 MAX. MARKS: 25

COURSE NAME: DEEP LEARNING

COURSE CREDITS: 03 MAX. TIME: 1.5Hr

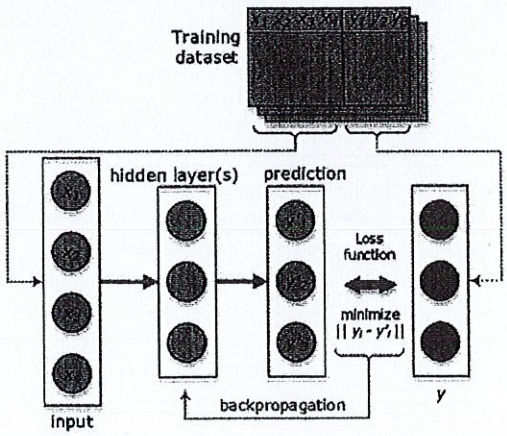
Note: *All questions are compulsory. Each question carries equal marks. Carrying of mobile phone during examinations will be treated as case of unfair means.*

1. (a) Explain the IoT data generation at different levels and deep learning models to address their knowledge abstraction.



(b) What are the characteristics of IoT data exhibits at different layers IoT Reference Model?

2. (a) Tabulate the summary of following deep learning models:
   1) AE 2) RNN 3) RBM 4) DBN 5) CNN
   (b) Explain the overall mechanism of training of a DL model



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3. What is Long Short-Term Memory (LSTM)? Draw the structure of a LSTM memory cell
4. Draw and explain the structure of:
   i. Autoencoder network
   ii. Variational autoencoder network
5. Explain the Concept of following Generative Adversarial Network. What is the use of GAN in IoT applications?