PRESIDENCY UNIVERSITY
BENGALURU

Department of Research & Development

Mid - Term Examinations - AUGUST 2024

Odd Semester: Ph.D. Course Work

Course Code: CSE848

Course Name: Blockchain Technology

Department: Computer Science and Engineering

Date: 12/08/2024

Time: 09:30am – 11:00am

Max Marks: 50

Weightage: 25%

Instructions:
(i) Read the all questions carefully and answer accordingly.
(ii) Do not write any matter on the question paper other than roll number.

PART A (THOUGHT PROVOKING)

Answer all the Questions. Each question carries 5 marks.   **(4Qx 5M= 20M)**

1. Discuss the features of Block chain technology in real world applications. (CO:01 BL:01)

2. Define Blockchain and explain its Types and its Structure. (CO:01 BL:01)

3. List Decentralized Applications. (CO:02 BL:03)

4. Discuss the PoW (Proof of Work) Algorithm in detail.   (CO:02 BL:01)

PART B (PROBLEM SOLVING)

Answer all the Questions. Each question carries 10 marks.   **(3Qx 10M= 30M)**

5. Explain Ethereum? How does it work. What are the best practices for using Ethereum. (CO:02 BL:01)

6. Design an application for making use of smart contracts. (CO:02 BL:06)

7. Explain the Merkle Tree and also about the Simplified Payment Verification. (CO:01 BL:01)

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