R20 Regulation *Subject code: 3E8GB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VIII Semester Supplementary Examinations, May 2026

BLOCKCHAIN TECHNOLOGY

(CSE(AI&ML))

Maximum Marks: 70 Date: 04.05.2026 Duration: 3 hours

Note: **1.This question paper contains two parts A and B.**
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20 Marks)		Marks	CO	Bloom Tx
1	Why the Blockchain Is Needed?	2M	1	L1
2	What is the objective when discovering the core problem?	2M	1	L1
3	What role does hashing data play in the overall functioning of the blockchain?	2M	2	L1
4	How is hashing applied?	2M	2	L1
5	How utilizing the data store?	2M	3	L1
6	How protecting the data store in the context of the blockchain?	2M	3	L1
7	What are the limitations in the blockchain system?	2M	4	L1
8	What is the primary objective of Using the Blockchain?	2M	4	L1
9	What is currency?	2M	5	L1
10	What is token?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
11	Explain L1 and L2 Regularization along with its weight update.	10M	1	L2
	OR			
12	Explain How a peer- to- peer system changed a whole industry, and the architecture of peer-to-peer systems.	10M	1	L2
13	a) Explain the basic concepts of managing ownership with the blockchain. b) Explain documenting ownership and explain how it works.	5M 5M	2	L2
	OR			
14	Explain hashing data and how it works.	10M	2	L2
15	How storing transactions in the blockchain data structure and compare transformed book with blockchain data structure?	10M	3	L2
	OR			

16	Explain choosing a transaction history and also explain longest & heaviest chain criterion works.	10M	3	L2
17	a) Describe the technical limitations of the blockchain. b) Explain in detailed generic application patterns in blockchain technology.	5M 5M	4	L2
	OR			
18	Explain major accomplishments of the blockchain.	10M	4	L2
19	a) Explain Tokenizing and Currency Multiplicity. b) Differentiate Monetary and Nonmonetary Currencies.	5M 5M	5	L2
	OR			
20	Explain Privacy Challenges for Personal Records.	10M	5	L2