

KIET Group of Institutions

Pre-CT Examination (2022-2023) ODD/EVEN Semester

Department: Information Technology (IT)
Year: III
Subject Name: Blockchain Architecture Design
Subject Code: KIT-061
Duration: 1 lecture

Course: B. Tech
Semester: VI

Max. Marks: 10

Note: Attempt all the questions. Each question carries equal mark.

(5×2 = 10)

		CO	BL
Q.1	<p>“As all of you aware that the blockchain technology brought the remarkable changes in the industry with the notion of decentralized distributed system.”</p> <ul style="list-style-type: none"> If you are agreed with the above statement, then justify it with the suitable use case. If you are denying this statement, then justify your answer. 	CO-1	BL-5
Q.2	<p>Now-a-days the blockchain technology is considered as trusted approach for different applications like supply chain management system. This technology achieves data immutability and provides the transparent system. Is it possible that blockchain technology can be used to completely removes the fraud and corruption from the present public and private sectors? Provides your observation on it.</p>	CO-1	BL-4
Q.3	<p>The current banking sector utilizes the centralized platforms to perform the customer's transactions. As a developer, if we shift from centralized system to decentralized system, then list down the pros and cons of the decentralized banking system.</p>	CO-1	BL-3
Q.4	<p>Suppose that Alice wants to perform transaction <t1> with Bob. We have given you the four possible scenarios. You have to provide your concern and defend your answer in the support of your argument.</p> <ul style="list-style-type: none"> Case 1: Alice encrypts the transaction <t1> using its private key and then further encrypts using the Bob public key and finally sends to the Bob. Case 2: Alice encrypts the transaction <t1> using its private key and then further encrypts using the its public key and finally sends to the Bob. Case 3: Alice encrypts the transaction <t1> using Bobs public key and then further encrypts using the its private key and finally sends to the Bob. Case 4: Alice encrypts the transaction <t1> using Bobs public key and then further encrypts using the its public key and finally sends to the Bob. 	CO-1	BL-5
Q.5	<p>The blockchain technology is broadly classified in public and private blockchain. Let's assume that the KIET organization wants to develop a blockchain model for its stakeholders, employees and students. In your opinion, which type of blockchain model is most suitable for the KIET organization.</p>	CO-1	BL-3