QP CODE 17431

Fourth Semester B.C.A Degree Examinations

MAY/JUNE 2026

(SEP Scheme)

SKD 7310: BLOCKCHAIN TECHNOLOGY
(COMPULSORY SKILL)

Time: 2 hrs] [Max. Marks: 40

Instructions to Students:

1. ***All Sections are Compulsory.***
2. ***Draw neat and labeled diagrams wherever necessary.***

SECTION – A

I. Answer all the following questions: 5 × 2 = 10

1. Define Blockchain and mention its key feature.
2. What is CAP Theorem?
3. What is meant by Public Key and Private Key in cryptography?
4. What is a Bitcoin transaction?
5. Define Smart Contracts.

SECTION – B

II. Answer any SIX of the following questions: 6 × 5 = 30

6. Explain the CAP Theorem and its relevance to blockchain systems.
7. Describe the architecture of a distributed system in blockchain.
8. Explain Decentralization using blockchain with suitable examples.
9. Explain the types of cryptography.
10. Write short notes on Namecoin and Primecoin.
11. Explain the working of Smart Contracts in Ethereum.
12. Discuss the structure and components of the Ethereum blockchain.
13. Explain precompiled contracts and Ricardian contracts.

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