

04/06/2025 MCA SEM-III (R-2021-22) BLOCKCHAIN QP CODE: 10081244

Time: 3 Hours

Max. Marks: 80

Note: (1) Question No. 1 is compulsory

(2) Attempt any three from remaining five questions

- Q.1 A** Explain Gas in brief. **05**
- B** Write a short note on Smart Contract. **05**
- C** Explain Proof of Work briefly. **05**
- D** Describe the need of Blockchain Government Sector. **05**
- Q.2 A** Explain Blockchain Technology with its Components. **10**
- B** Explain Ethereum mining process in detail. **10**
- Q.3 A** Describe Paxos algorithm in detail. **10**
- B** Explain Merkle Tree with Suitable example. **10**
- Q.4 A** Explain Practical BFT in brief. **10**
- B** Explain consensus mechanisms in brief. **10**
- Q.5 A** Explain Solidity Programming with Suitable example. **10**
- B** Write a brief note on features of hyper ledger. **10**
- Q.6 A** Describe Digital Signature with its need. **10**
- B** What do you Understand by Gossip Protocol explain in detail. **10**
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