Student Name: University Roll No.:	Printed Pages:

School of Engineering
Second Theory Sessional Examination
Even Semester (AS: 2024-25)

B. Tech: CSE IOTBC3A **[Year :3] [Semester :VI]**

Course Title: Smart City Application Development Course Code: ITBC3602	Max Mark : 30 Time: 1hrs

Instructions: 1-Mention any assumptions made.
2-Notations have usual meaning.

	SECTION 'A' **Q.N.1. Attempt all parts of the following:**	**Course Objective**	**Marks**
a)	Define a Blockchain.	CO3	1
b)	What is the Internet Protocol?	CO3	1
c)	What is IoT?	CO4	1
d)	Define Kali Linux OS.	CO3	1
e)	What is encryption?	CO4	1

	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	Explain Wireless Ad-hoc Networks.	CO3	7.5
b)	Discuss IoT architecture and its protocols.	CO4	7.5
c)	Write a short note on opportunities of Blockchain in Smart Cities.	CO4	7.5

SECTION 'C' Q.N.3. Attempt any one parts of the following:		Course Objective	Marks
a)	Explain types of Blockchain with examples.	CO3	10
b)	Describe the role of a decentralized ledger system.	CO3	10
c)	Explain intelligent transportation systems in Smart Cities.	CO4	10

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO3	Q1(a,b,d),Q2(a),Q3(a,b)	30.5
CO4	Q1(c,e),Q2(b,c),Q3(c)	27