Student Name: **University Roll No.:**	**Printed Pages:**
School of Engineering **First Theory Sessional Examination** **Even Semester (AS: 2024-25)** **B. Tech: CSE** **[Year :3] [Semester :VI]**	
Course Title: Smart City Application Development **Course Code: ITBC3602**	**Max Marks: 30** **Time: 1*hrs***

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 Smart City.	CO1	**1**
b)	Write any two commands of Nmap.	CO1	**1**
c)	What is SQL Injection?	CO2	**1**
d)	Define Attacker & target Machines.	CO1	**1**
e)	What is Wireshark?	CO2	**1**
	SECTION 'B' **Q.N.2. Attempt any two parts of the following:**	**Course Objective**	**Marks**
a)	Explain the role of IoT in Smart Cities.	CO1	**7.5**
b)	Discuss IoT architecture and its protocols	CO2	**7.5**
c)	Write a short note on smart technologies, services, and applications in a Smart City.	CO2	**7.5**
	SECTION 'C' **Q.N.3. Attempt any one parts of the following:**	**Course Objective**	**Marks**
a)	Explain the different eras of Smart Cities.	CO1	**10**
b)	Describe the components of a Smart City with examples.	CO1	**10**
c)	Explain Embedded System Design in IoT. How is it useful in Smart Cities?	CO2	**10**

Table 1: Mapping between COs and questions

COs	Questions Numbers	Total Marks
CO1	Q1(a,b,d),Q2(a),Q3(a,b)	30.5
CO2	Q1(c,e),Q2(b,c),Q3(c)	27

20.03.2025