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	**Max Marks: 30**
Course Code: ITBC3602	**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 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