

BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VIII INFORMATION TECHNOLOGY : SUMMER : 2025
SUBJECT: ITC-VI: INTERNET OF THINGS

Day : Monday
Date : 02/06/2025

S-24772-2025

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.
- 5) Use of non-programmable calculator is **ALLOWED**

Q.1 Understand and Explain IoT components and IoT communication technologies and models. (10)

OR

Q.1 Enlist and describe IoT issues and challenges in detail. (10)

Q.2 Analyse and Describe types and configuration of gateways, Specifications of IoT gateways. (10)

OR

Q.2 Describe the process of reading sensor data and transmit to cloud with example. (10)

Q.3 Analyse and explain transport layer protocol, application layer protocol in detail. (10)

OR

Q.3 Describe the terms: Constrained nodes and constrained networks in detail. (10)

Q.4 Analyze and explain benefits of cloud platform for IoT. (10)

OR

Q.4 Describe Virtualization and cloud architecture concept in detail (10)

Q.5 Describe IoT security protocols in detail. (10)

OR

Q.5 Describe security in service management in detail with example. (10)

Q.6 What are broad categories of IoT applications also explain one of them in detail. (10)

OR

Q.6 Describe Industry 4.0 concept with example. (10)
