

**GE (COMP) IOT Sem VI R-19 cl-scheme**  
**26.05-2025**

**Duration: 3hrs**

**[Max Marks: 80]**

- N.B. :** (1) Question No 1 is Compulsory.  
(2) Attempt any three questions out of the remaining five.  
(3) All questions carry equal marks.  
(4) Assume suitable data, if required and state it clearly.



- 1 Attempt any FOUR [20]**  
a Explain IoT Application Transport Methods in brief.  
b Explain IoTWF Standardized Architecture with a neat diagram.  
c Explain different types of sensors.  
d What is IoT? Discuss various challenges w.r.t IOT applications.  
e Describe Raspberry PI with its pin diagram.
- 2 a Explain Generic Web-Based Protocols. [10]**  
**b Explain the following layers in Core IoT Functional Stack- [10]**  
1. Gateways and Backhaul Sublayer  
2. Communications Network Layer
- 3 a Which IoT protocol is used for smart home automation? How will you [10]**  
provide security for these applications with the suggested protocol?  
**b Explain in brief- IoT software platforms. [10]**
- 4 a Explain RFID and NFC with a neat diagram. [10]**  
**b Differentiate MQTT and COAP. [10]**
- 5 a Compare various boards and platforms in terms of connectivity. [10]**  
**b Explain BLE and ZigBee. [10]**
- 6 a Explain the concept of Edge computing, Fog computing and Cloud [10]**  
computing. How they are related to each other?  
**b Write short note on Smart City considering various IOT platforms, [10]**  
types of sensors, IOT boards, communication technologies and  
protocols.

\*\*\*\*\*

**Q.P code**

**82413**

**Prog. code**

**1T00736**