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Total No. of Pages : 02

Total No. of Questions : 07

B.Sc. (IT) (Sem.-6)
INTERNET OF THINGS
Subject Code : UGCA1933
M.Code : 91731
Date of Examination : 20-05-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B contains SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

SECTION-A

1) Write briefly :

- a) What do you mean by Push-Pull model?
- b) What is the use of SPI interface in Raspberry Pi?
- c) What do you mean by IoT levels?
- d) What is the role of REST-based APIs in IoT?
- e) List some IoT enabled technologies.
- f) What do you mean by IoT Design Methodology?
- g) Mention the purpose and requirement specifications for a home automation system.
- h) List some examples of M2M applications using IoT.
- i) What are the network operator requirements for IoT system management?
- j) List some limitations of SNMP protocol.

SECTION-B

- 2) Compare and contrast the physical and logical design of IoT.
- 3) List and discuss significant features of Software Defined Networks (SDN).
- 4) Discuss cloud storage models with example of each.
- 5) How IoT System management is performed with NETCONF-YANG? Explain.
- 6) Discuss the use of IoT techniques in agriculture domain.
- 7) **Write short notes on:**
 - a. Network Function Virtualization
 - b. Simple Network Management Protocol (SNMP).

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.