

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2018

Subject Code: 2180709

Date: 07/05/2018

Subject Name: IOT and Applications (Departmental Elective - III)

Time: 10:30 AM to 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	MARKS
Q.1 (a) What is IoT.	03
(b) Discuss smart health using IoT.	04
(c) Explain research directions of IOT.	07
Q.2 (a) What is Global Value Chain? Explain it with a diagram.	03
(b) Explain IoT value chains.	04
(c) Discuss in detail Smart City application of IoT.	07
OR	
(c) Explain layered IOT architecture using a figure.	07
Q.3 (a) What is IoT Domain Model?	03
(b) Explain M2M Value Chains.	04
(c) Explain Functional View, Information View, Deployment and Operational View, Other Relevant architectural views of IOT reference architecture.	07
OR	
Q.3 (a) Discuss ETSI M2M interfaces.	03
(b) What is IoT Functional Model?	04
(c) Explain Open Geospatial Consortium Architecture with a diagram.	07
Q.4 (a) Explain strategic business aspects.	03
(b) What the shopping basket can tell: IoT for retailing industry?	04
(c) Explain in brief future factory concepts.	07
OR	
Q.4 (a) Describe: Smart products, smart equipment and smart infrastructure.	03
(b) Discuss IoT for Oil and Gas Industry.	04
(c) Explain: The smart factory.	07
Q.5 (a) IoT-A Architecture.	03
(b) Discuss GAMBAS adaptive middleware.	04
(c) Explain privacy-preserving sharing of IoT Data.	07
OR	
Q.5 (a) Discuss activity chain 05 - governance, privacy and security issues.	03
(b) Explain smartie approach for IoT.	04
(c) Discuss various FP7 projects.	07
