



Sanjay Ghodawat University, Kolhapur

2018-19

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of Electronics Engineering

F.Y. M. Tech.

Course Code: EES5101

Course Title: Internet of Things

Semester – II

Day and Date: Wednesday

End Semester Examination

Time: ^{3 Hrs} Max Marks: 100

29/05/2019

(ESE)

2.30 to 5.30 PM.

Instructions:

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1	Attempt any two of the following	Marks	Bloom's Level	CO
a)	Illustrate the concept of the IoT System	8	L ₃	CO1
b)	Specify in detail Protocols for the IoT Layers.	8	L ₄	CO1
c)	Choose and describe IoT Communication models with neat Schematics for various applications.	8	L ₅	CO1
 Q.2	 Attempt the following			
a)	Justify use of significance of IoT Retail Industry.	9	L ₅	CO2
OR				
a)	Make use of IoT applications in Smart Irrigation /Green House.	9	L ₃	CO2
b)	Model with a schematic an IoT System for Weather Monitoring	9	L ₆	CO2
 Q.3	 Attempt any two of the following			
a)	Describe in detail IoT Level 3 with neat schematic and an example.	7	L ₄	CO3
b)	Compose IoT Level 6 with neat schematic and an example.	7	L ₅	CO3
c)	Interpret with an example the GAMBAS Adaptive Middleware.	7	L ₄	CO3
 Q.4	 Attempt any Two of the following			
a)	Analyze SMARTIE approach with an example.	7	L ₅	CO4
b)	Comment on Research, Development and Innovation life cycle.	7	L ₄	CO4
c)	Determine security and privacy elements with respect to common architecture for IoT.	7	L ₃	CO4

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- Q.5 **Attempt any Two of the following**
- a) Identify Vulnerabilities of IoT system. 10 L₄ CO5
 - b) Choose and describe in detail various Identity Management models for various applications 10 L₆ CO5
 - c) Determine security requirements for an IoT System. 10 L₅ CO5
- Q.6 **Attempt any Two of the following**
- a) Model a Trust Management Life Cycle for an IoT system. 9 L₄ CO6
 - b) Appraise SAML Approach and Fuzzy Approach for Trust Management for an IoT System 9 L₃ CO6
 - c) Compare and Contrast between different Access Control Schemes 9 L₅ CO6

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