



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

F.Y. M. Tech.

Course Code: EES5101

Day and Date: Wednesday

29/05/2019

School of Technology

Course Title: Internet of Things

End Semester Examination

(ESE)

Department of Electronics Engineering

Semester – II

Time: 3 Hrs Max Marks: 100

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

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|--|----|----------------|-----|
| a) Identify Vulnerabilities of IoT system. | 10 | L ₄ | CO5 |
| b) Choose and describe in detail various Identity Management models for various applications | 10 | L ₆ | CO5 |
| c) Determine security requirements for an IoT System. | 10 | L ₅ | CO5 |

Q.6 Attempt any Two of the following

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|---|---|----------------|-----|
| a) Model a Trust Management Life Cycle for an IoT system. | 9 | L ₄ | CO6 |
| b) Appraise SAML Approach and Fuzzy Approach for Trust Management for an IoT System | 9 | L ₃ | CO6 |
| c) Compare and Contrast between different Access Control Schemes | 9 | L ₅ | CO6 |

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