

Total No. of Questions : 5]

SEAT No. :

P-1299

[Total No. Of Pages : 2

[6055]-206

S.Y.B.Sc. (Computer Science)

ELECTRONICS

**ELC 242-Wireless Communication and Internet of Things
(Semester-IV) (2019 Pattern) (Paper II) (24322)**

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates :

- 1) *Q.1 is compulsory.*
- 2) *Solve any three questions for Q2 to Q5.*
- 3) *Figures to the right indicate full marks.*
- 4) *Use of calculator is allowed.*

Q1) Answer the following in one or two sentences each (any Five) **[5 × 1 = 5]**

- a) What is handoff?
- b) What do you mean by scalability of IoT?
- c) State at least two applications of IoT.
- d) What does GPS stand for?
- e) What is full form of
 - i) IaaS
 - ii) SaaS
- f) List four elements of RFID system.

Q2) Answer the following:

[2 × 5 = 10]

- a) Explain GPS architecture with neat labelled diagram.
- b) Compare between Zigbee and Bluetooth technologies.

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Q3) Answer the following:

[2 × 5 = 10]

- a) Draw block diagram of mobile handset and describe function of any two blocks.
- b) Draw diagram of zigbee architecture and state functions of each layer.

Q4) Answer the following:

[2 × 5 = 10]

- a) Compare M2M and IoT.
- b) Draw block diagram and explain concept of smart city system using IoT.

Q5) Write a short note on any four of the following:

[4 × 2.5 = 10]

- a) VLR block of NSS of GSM system
- b) Private cloud
- c) Mesh topology in zigbee network
- d) Features of Z-wave
- e) Secure connectivity in IoT
- f) 4G - LTE.

