

**B. Tech. Sem - VIII (Electronics) (2014 COURSE) (CBCS) :
SUMMER - 2019
SUBJECT- ELECTIVE –II AGRICULTURAL ELECTRONICS**

Day: Thursday
Date: 30/05/2019

S-2019-2904

Time: 02.30 PM TO 05.30 PM
Max. Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.

Q.1 What is data logger? What is importance & applications of data loggers? **(10)**

OR

Q.1 Describe in detail the architecture of virtual instrument. **(10)**

Q.2 Describe HART device network in detail. **(10)**

OR

Q.2 What is sensor network? Describe architecture, applications & limitations of sensor network. **(10)**

Q.3 What is soil moisture measurement sensor? Describe its types and applications. **(10)**

OR

Q.3 Discuss the application of sensors in leaf area and chlorophyll content measurement. **(10)**

Q.4 Describe the following terms **(10)**
i) Yield monitoring ii) Soil sampling analysis

OR

Q.4 How can computer & GIS help in precision farming? **(10)**

Q.5 Elaborate the role of Electronic instrument for protected cultivation. **(10)**

OR

Q.5 Discuss crop spraying in detail for precision agriculture. **(10)**

Q.6 Explain the Electronic control system for grape draying process. **(10)**

OR

Q.6 What is e-Governance? Describe the role of e-Governance in Agricultural sector. **(10)**