Sem-VI (CCBSes) INST/ Industrial Data Communication)
Q. P. Code: 598301 May [Total Marks: 80 (3 Hours) Note: Question 1 is compulsory Solve any three out of remaining five questions Figures on right indicate full marks allotted to main question 20Mk Q1 Answer the following What are different types of network topologies? Explain Burst mode of communication of HART. c. Which layer is responsible for following-Physical encoding and decoding Providing end to end delivery of packets 11. Providing end to end delivery of segments 111. Error detection and correction IV. V. Routing d. What is FFB Foundation fieldbus? List the features 20Mks Q2 Answer the following a) Explain The OSI model b) Draw the TCP/IP model and Explain LAN Architecture including IEEE standards 20Mks Q3 Answer the following a) Compare H1 and HSE segment of Foundation Field bus b) What is CAN Bus? Explain? 20Mks Q4 Answer the following a) Explain Three components (Blocks) of Foundation fieldBus b) What is MODBUS and MODBUS PLUS 20Mks Q5 Answer the following a) What is Profibus? Explain Profibus PA, Profibus DP and Profibus FMS Explain HART protocol and give its importance in predictive maintenance 20Mks Q6 Write short notes on (Any four) RS232 i. **GPRS** II. Wireless LAN 111. VSAT IV.

OPC