

- (b) Write Short note on clock system of MSP430. 6
- Or
- 2 (a) Explain the Interfacing of MSP 430 with the External Memory. 10
- (b) Explain various key differentiating factors between different MSP 430 families. 6

Unit – III

3. (a) What is ARM ? Explain Various Instruction Set of ARM in detail. 10
- (b) Write short note on Interrupts of ARM. 6
- Or
3. (a) Explain How ARM processor is better for embedded system development Also Explain role of pipeline in it. 10
- (b) Write short note on Vector table in ARM. 6

Unit – IV

4. Explain the I/O Port programming of 8051 Microcontroller in detail. 16
- Or
4. Explain the Architecture and PIN diagram of 8051 Microcontroller. Also Explain the addressing modes in 8051. 16

Unit – V

5. (a) Explain How analysis and optimization of CPU Power Consumption is achieved in Embedded System. 10
- (b) Write short note on clock request feature. 6
- Or
5. (a) Explain the application of Embedded Systems in Energy meters. 10
- (b) Write Short note on Low Power Programming and Interrupts. 6