

Q1 (a) Diagram - 2 01 M  
Explanation of flags 04 M

Microcontroller  
& Applns  
(2012)

(b) Listing of diff oscillator modes with freq ranges - 04 M

Q2 (a) Diagram 2 M  
Explanation 3 M.

(b) Correct diagram with address ranges - 05 M.

Q3 (a) Correct assembly language program - 06 M.

(b) WREG = 0A 0x10 = 09

Q4 (a) Configuration of pins as i/p & o/p - 01  
checking status of PORTB.0 }  
+ copying it to PORTD.0 } - 05

(b) Explanation of each inst carries 2 M.

Q5 (a) ~~Note~~ Short note which includes

(1) Vector addresses, priorities

— 04 M

(2) Types of interrupts

Q5 (b) :- Calculation of correct value to be  
loaded in TMROH & TMROL - 2  
Correct value in TOCON - 1  
Remaining prog — 03

Q6 (a) Diagram 01 M  
Explanation 03 M

(b) Correct program in C - 06 M.