



(ii) 7E – 90

**Q3.** Fill the blanks in the following questions:

- (i) Assuming unsigned number representation,  $(\mathbf{AB})_{16}$  represents the decimal number \_\_\_\_\_.
- (ii) The decimal number **500** is represented in binary as \_\_\_\_\_.
- (iii) The binary number **01101000** represents character \_\_\_\_\_, and uses an \_\_\_\_\_ parity bit. Note that the ASCII code of character **A** is 41H and that of character **a** is 61H.
- (iv) Assuming **6-bit 2's complement** representation, the smallest (negative) number is \_\_\_\_\_ in binary and \_\_\_\_\_ in decimal and the largest (positive) number is \_\_\_\_\_ in binary and \_\_\_\_\_ in decimal.