محمد هادی سرسلی (۴۳) (۹۹۴۷۳)

سوال ۱:

$$\mathop{1}\limits^{7} \mathop{0}\limits^{6} \mathop{0}\limits^{5} \mathop{0}\limits^{4}\ \ \mathop{1}\limits^{3} \mathop{0}\limits^{2} \mathop{1}\limits^{1} \mathop{1}\limits^{0}$$

-116

الف)

$$-2^{7} + 2^{3} + 2^{1} + 2^{0} = -117$$ -4

ب) هماننت بخش الف +4

$$-2^{7} + 2^{3} + 2^{1} + 2^{0} = -117$$

ج) +6

$$(\mathop{1}\limits^{4} \mathop{0}\limits^{3} \mathop{0}\limits^{2} \mathop{0}\limits^{1} . \mathop{1}\limits^{0} , \mathop{0}\limits^{-1} \mathop{1}\limits^{-2} \mathop{1}\limits^{-3})_2 = (?)_{10}$$

$$2^{4} + 2^{0} + 2^{-2} + 2^{-3} = 16 + 1 + \frac{1}{4} + \frac{1}{8} = \frac{139}{8} = 17,375$$

د) +6

$$(\mathop{1}\limits^{}0 0 , 0 1 0 1 1)_2 = - (\mathop{0}\limits^{1} \mathop{1}\limits^{0} \mathop{1}\limits^{-1} . \mathop{1}\limits^{-2} \mathop{0}\limits^{-3} \mathop{1}\limits^{-4} \mathop{0}\limits^{-5} \mathop{1}\limits^{-6})_2 = -3,45625$$