Subject: Year: Month: Date:

1) ... Π (6) ...

2) ... Π ...

3) ... 6 (Π) ...

4) ... 6 ... Π (6) $\to$ 6 (Π)

2) Π (BOOKS)
(Title, Year)

3) σ (STUDENTS)
Major = "MATH"

4) σ (BOOKS)
(Publisher = "Fatemi") $\land$ (Year (1390)

5) σ (STUDENTS)
(Ag > 20) $\land$ (Major != "MATH")

6) Π (σ (Books $\bowtie$ (Π (Students $\bowtie$ borrows))))
St.Name   year="1397"   (DocID, St.Name)

$(3)\ (\text{ب})$ $A \cap B$

$(4)\ a)$ شماره ... تمام قطعات ممکن ... آدرس آنها از 1 تا 50 ... است.

ب) نام قطعه ... آدرس آنها از 1 تا 50 ... است.

$(5)\ (A, B, C)$, (A, B) , (B, C) , (A, C)

$(6)\ a, b$ ... با جدول زیر ... شده.

$$R = \begin{array}{|c|c|} \hline A & B \\ \hline 1 & 1 \\ \hline 2 & 2 \\ \hline \end{array} \qquad S = \begin{array}{|c|c|} \hline B & C \\ \hline 1 & 2 \\ \hline 2 & 3 \\ \hline \end{array}$$

a)
$$\begin{array}{c|c} A & C \\ \hline 1 & 2 \end{array}$$

b)
$$\begin{array}{c|c} A & C \\ \hline 1 & 2 \end{array}$$

c)
$$\begin{array}{c|c} A & C \\ \hline 1 & 2 \\ 2 & 2 \end{array}$$