

(iv) n-ary Relation:

→ Having more than three sets and their cartesian product. i.e:

$$A_1 \times A_2 \times A_3 \times \dots \times A_n.$$

→ Representing Relations:

→ Relations are represented as:

(i) Sets representation.

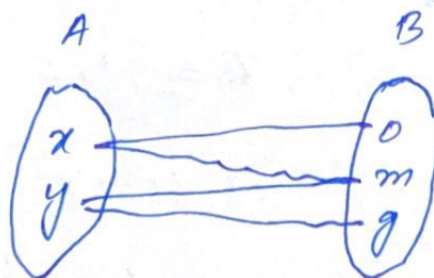
(ii) Matrix of relation representation.

(iii) Graph of relation representation.

(i) Sets of relation representation:

$$A = \{x, y\}, B = \{o, m, q\}$$

$$R_1 = \{(x, m), (y, q), (x, o), (y, m)\}.$$



(ii) Matrix of relation representation:

Rows  $\rightarrow A$ , Column  $\rightarrow B$ .

	o	m	q	(n)
x	1	1	0	
y	0	1	1	
(m)				

(iii) Graph of relation representation:

