

# الأكاديمية العربية الدولية



الأكاديمية العربية الدولية  
Arab International Academy

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## الأكاديمية العربية الدولية المقررات الجامعية

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<b>62-5</b>		..	:
<b>98-63</b>	.	..	:
<b>124-99</b>	..		:
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<b>156-125</b>			:
		..	
		.	
<b>204-157</b>	..		:
		.	
<b>238-205</b>			:
		.	
<b>296-239</b>	..		:
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<b>352-297</b>	..		:
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<b>372-353</b>			:

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## Demography

(Preston,1993: 594, McFalls, 1998:2)

Population

Composition

Population Dynamic

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(Nichiporuk, 2000:2) ( )

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0(11:1993

13:1989

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Achille Guillard 0

“Formal Demography”

(68- 67 : 1993 )

Hauser and Duncan

social demography

(Shryock and )

others, 1976 :1

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(14 : 1989 )

Demographic Transition

(278 : 1970 )

(Crimmins, 1993:587)  
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(57-56 : 1993 )

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Geometrical progression -

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Arithmetical progression -

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Positive checks

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Malthusian

"Comucopians"

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(47-37 : 1993 )

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(101 -100: 1993

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Optimal size

Over-population

Under-population

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Statistical density

Physical density  
Economic density

Ideal size

(95 : 1993 )



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1994

“International Conference on Population and Development (ICPD)”

(Khattab and others, 2000 : 49)

(Ashford,

1995 : 33)

(84 : 1993 )

## Demographic Transition Theory

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(Sen, 1994 : 1)

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(McCarthy, 2001 : 3)

(Cross and others, 2002 : 1)

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Zero-population order

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(McCarthy, 2001 : 7 – 16)

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. Modernization

(Hodgson, 1988:542)

Bumpass

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. (Bumpass, 1990 : 483-493)

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(Hodgson, 1988:543-546)

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. (Bengtsson, 1992:24-5)

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(Theory ) “Demographic Transition”

. (Vandewalle, 1992:487)

	:
"Freedman	"
Caldwell	
"Easterlin	"
"Heerink	"
"Hammel	"
0 "Arizpe	"

Ageing "Sen "  
"Maine McCarthy "

Determinants of Maternal Mortality

Theories of Fertility Decline

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(Freedman, 1979 : 1-17)

children demand

(Freedman, R. 1979 : 1-17)

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cultural factors

(Freedman, 1979: 63-79, Freedman,

. 1982 : 258 – 266)

proximate determinants

Bongaarts

Davis & Blake

pre-industrial

–  
biosocial –  
(Freedman, 1987 : 57-82)

19

(Hodgson, 1983:4)

macro level

micro level

(Lockwood, 1995)

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0(Freedman, 1975:5)

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Freedman  
children demand

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**Caldwell**

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. zero reproduction

"net wealth flows"

(Caldwell, : 1978 : 533)

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.(Caldwell, : 1982 : 333 – 337 )

" Fricke "

(Fricke,

. 1990:156)

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**"Easterlin"**

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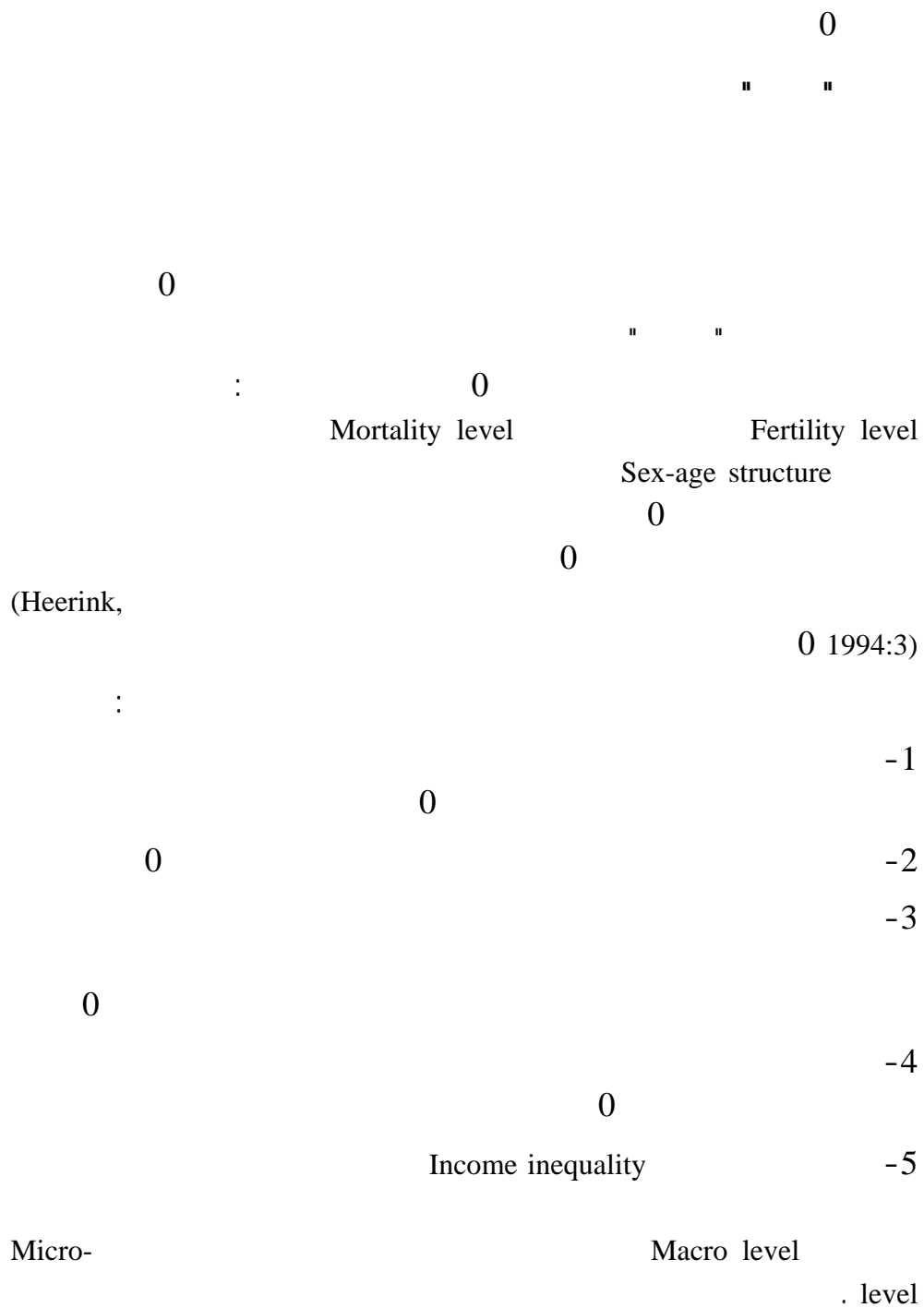
(Easterlin,1980:5– 40)

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Income  
 0 redistribution  
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 0 Household income

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 0 (Heerink, 1994:368)

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0 (Heerink, 1994:369)

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## Theory of Culture

(Hammel,

0 1990:455-485)

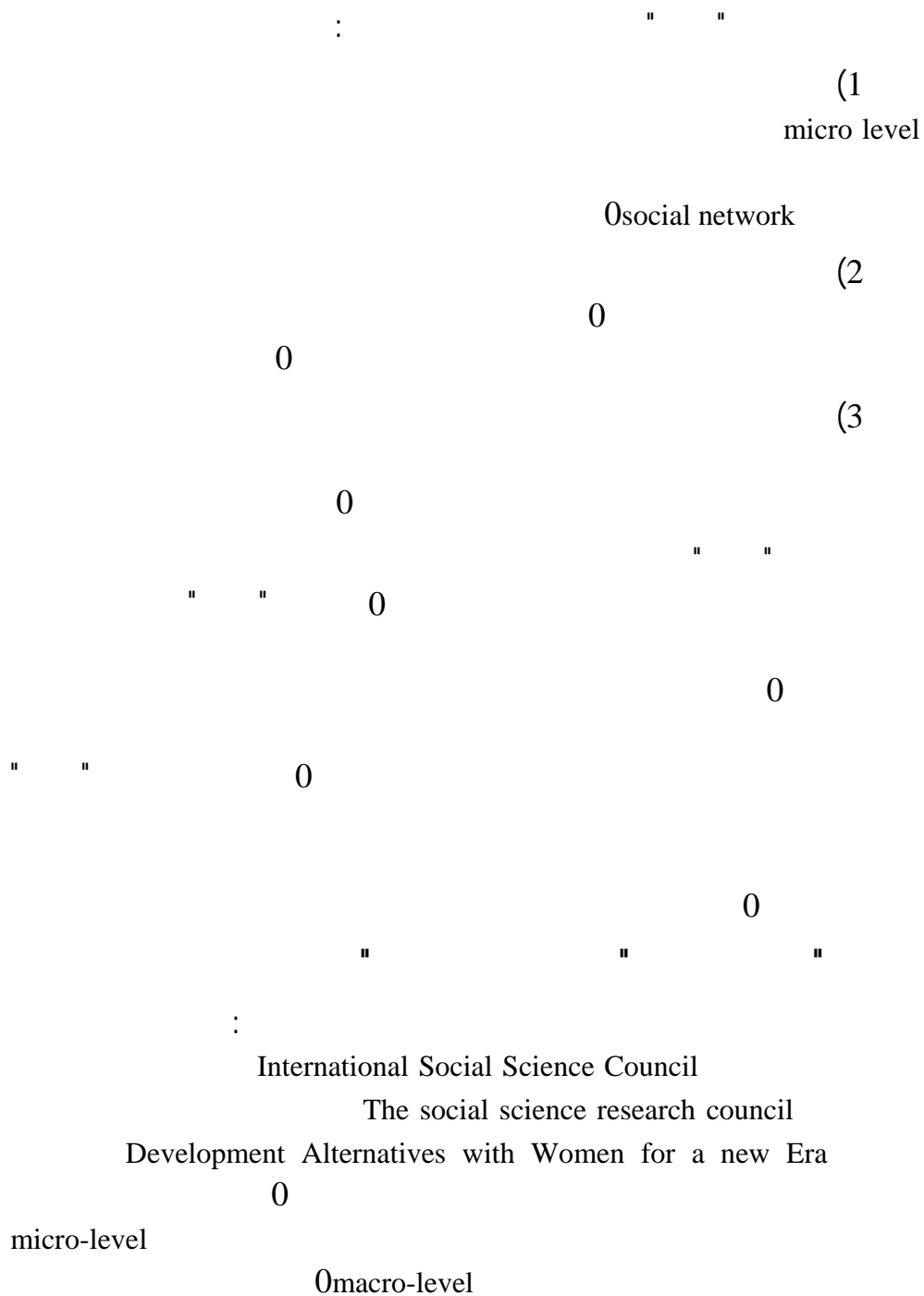
"Hammel "

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(Caldwell,

01982: 1)



(Arizpe

0and others, 1994:1)

1992

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sustainable development

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(Arizpe

0and others, 1994:2-3)

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Human Creativity

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0 (Arizpe & others, 1994 : 1-3)

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Global solution

0 (Arizpe, 1994 : 4)

0 (Arizpe, 1994 : 5)

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Urbanization

Land degradation

0 (Arizpe, 1994 : 6-7)

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(Arizpe,

1994: 8-15)

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0(Arizpe and others, 1994:345)

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(McCarthy and Maine) "

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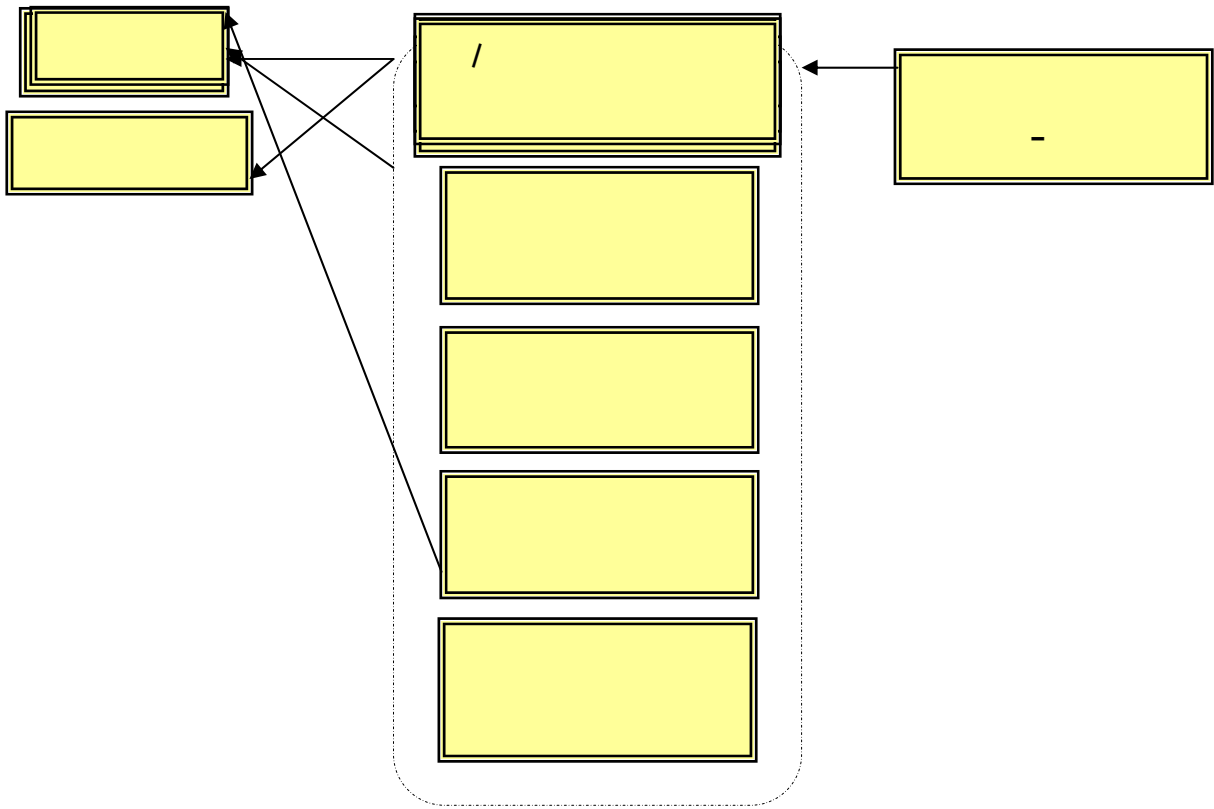
: Intermediate determinants

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Demographic Transition

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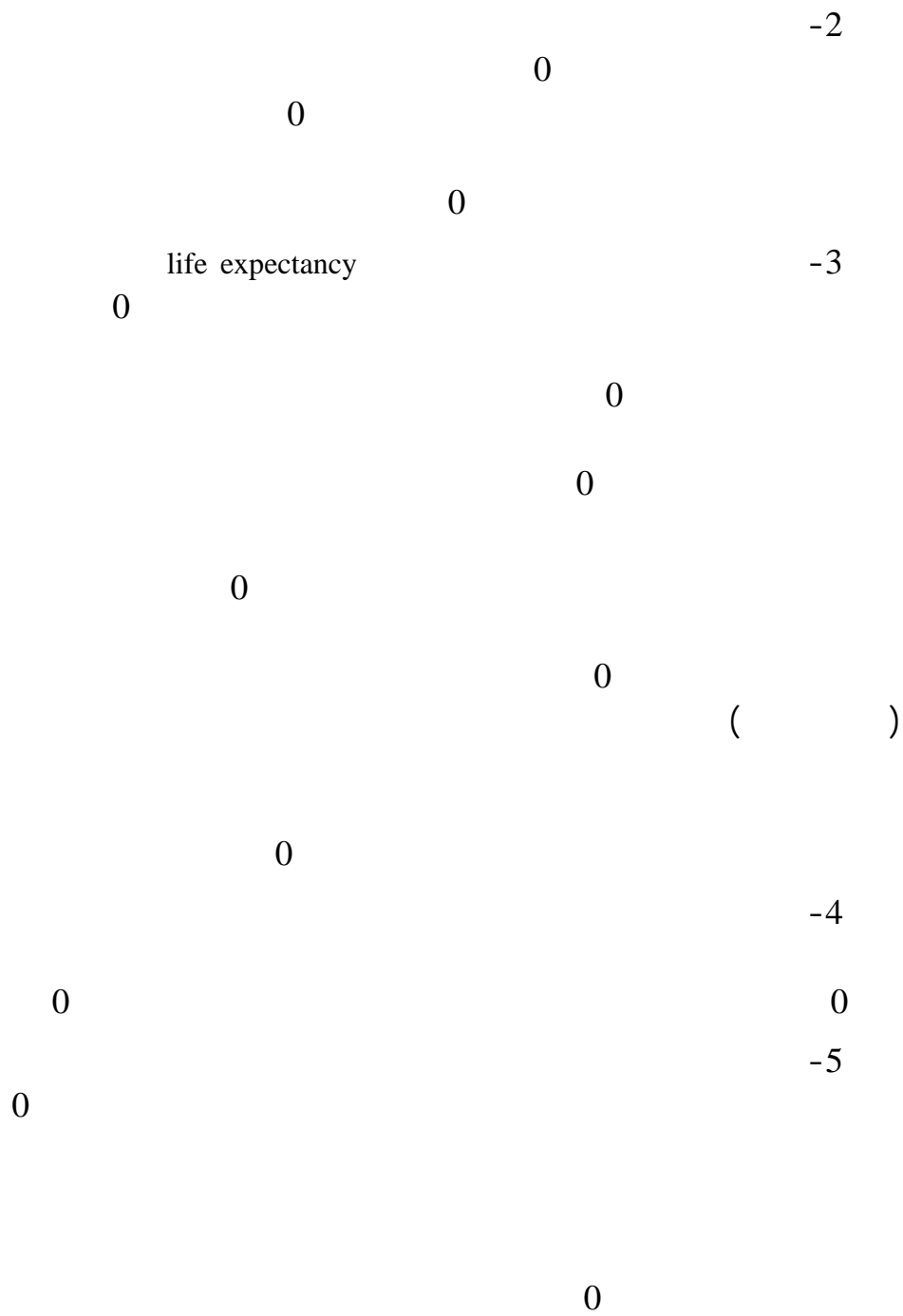
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Family Care

System of Social Support

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(Sen, 1994:67:68)

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Demographic Health Surveys

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(Demographic and Health Survey 1988, 1992, 1995, 1997, 1998 and  
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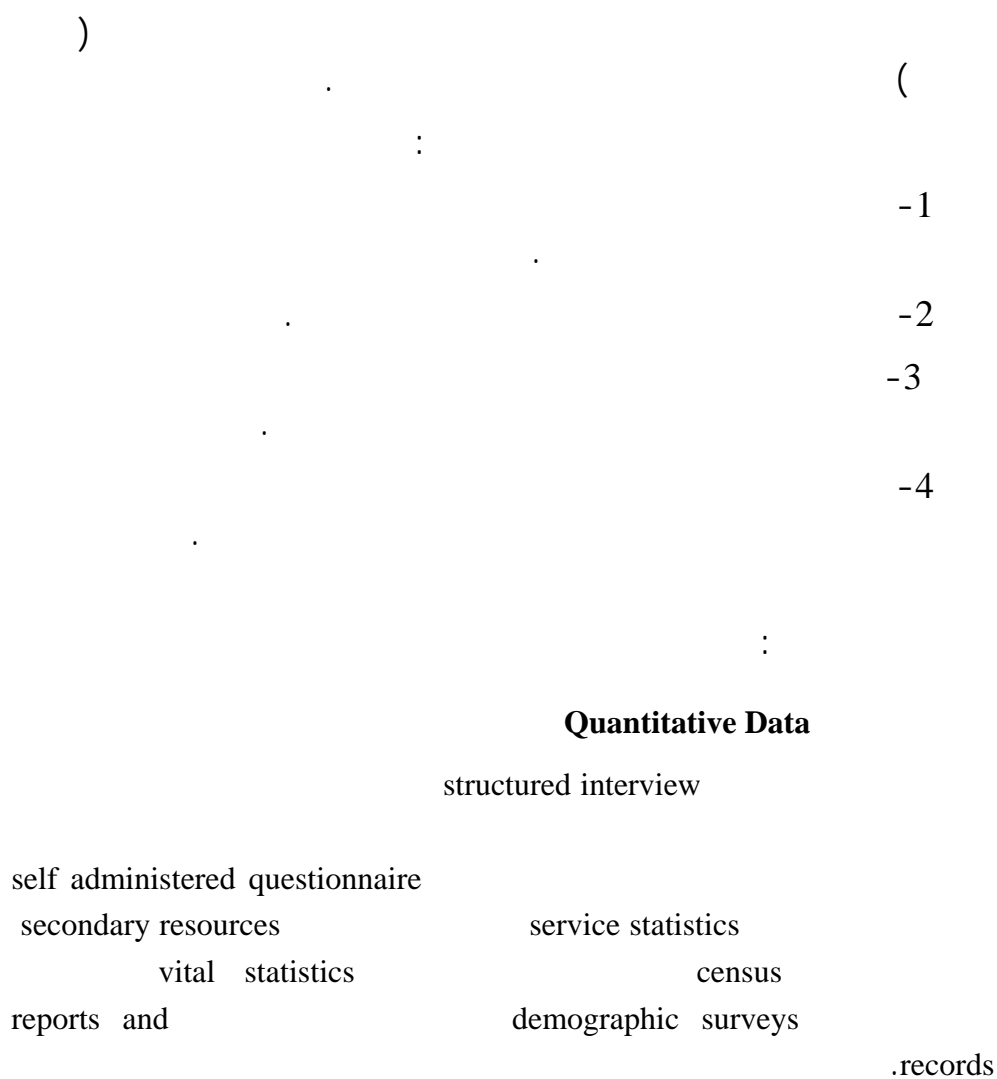
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: In Depth Interview -1

: Observation -2

: Content Analysis -3

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information, education and communications

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: Focus Group Discussion -4

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: (Debus and others, 1990 : 8-9)

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(Ibrahim et al. 1996) "

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· (El Saadani, 1993) "

1974-1987

female emigration  
male emigration

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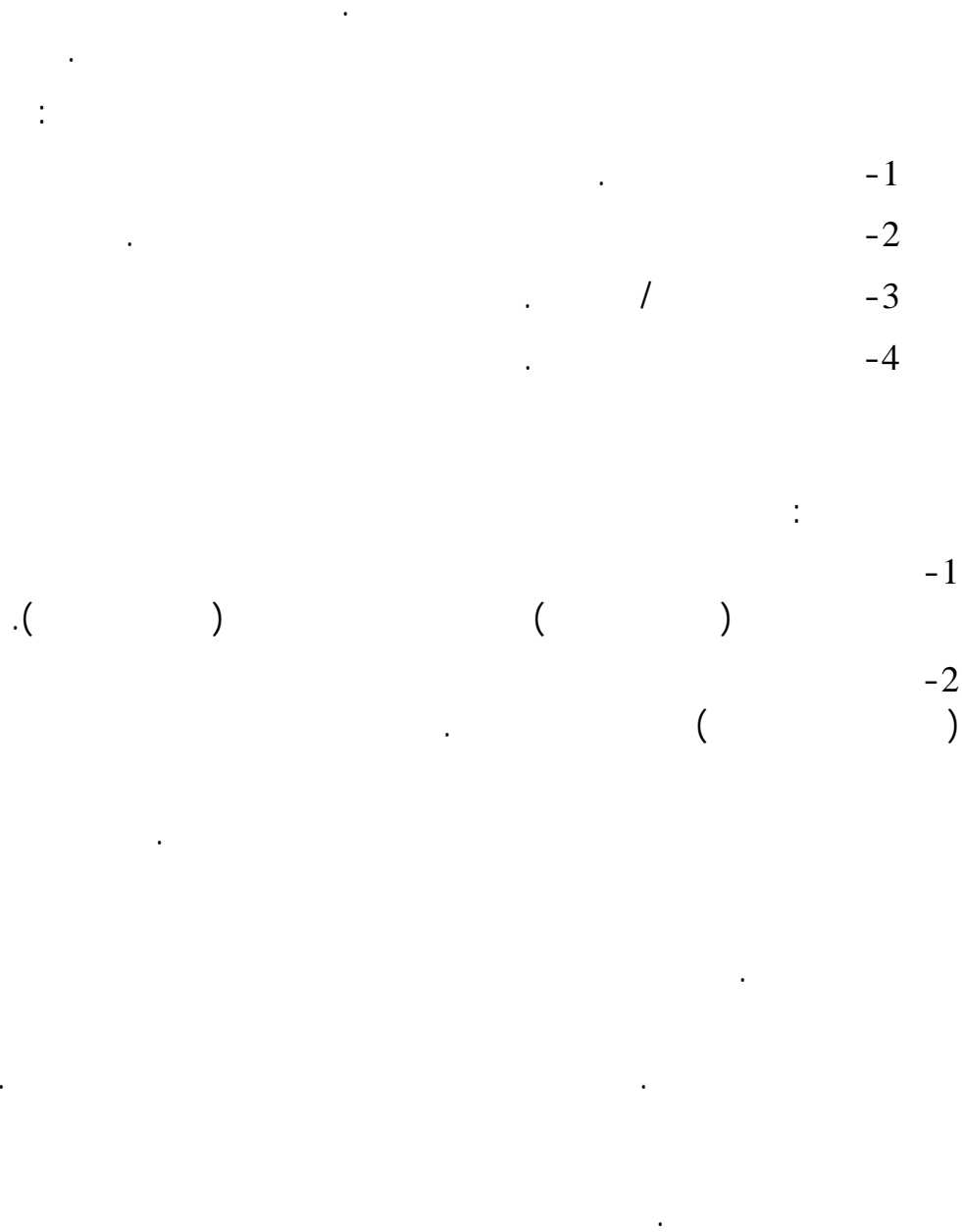
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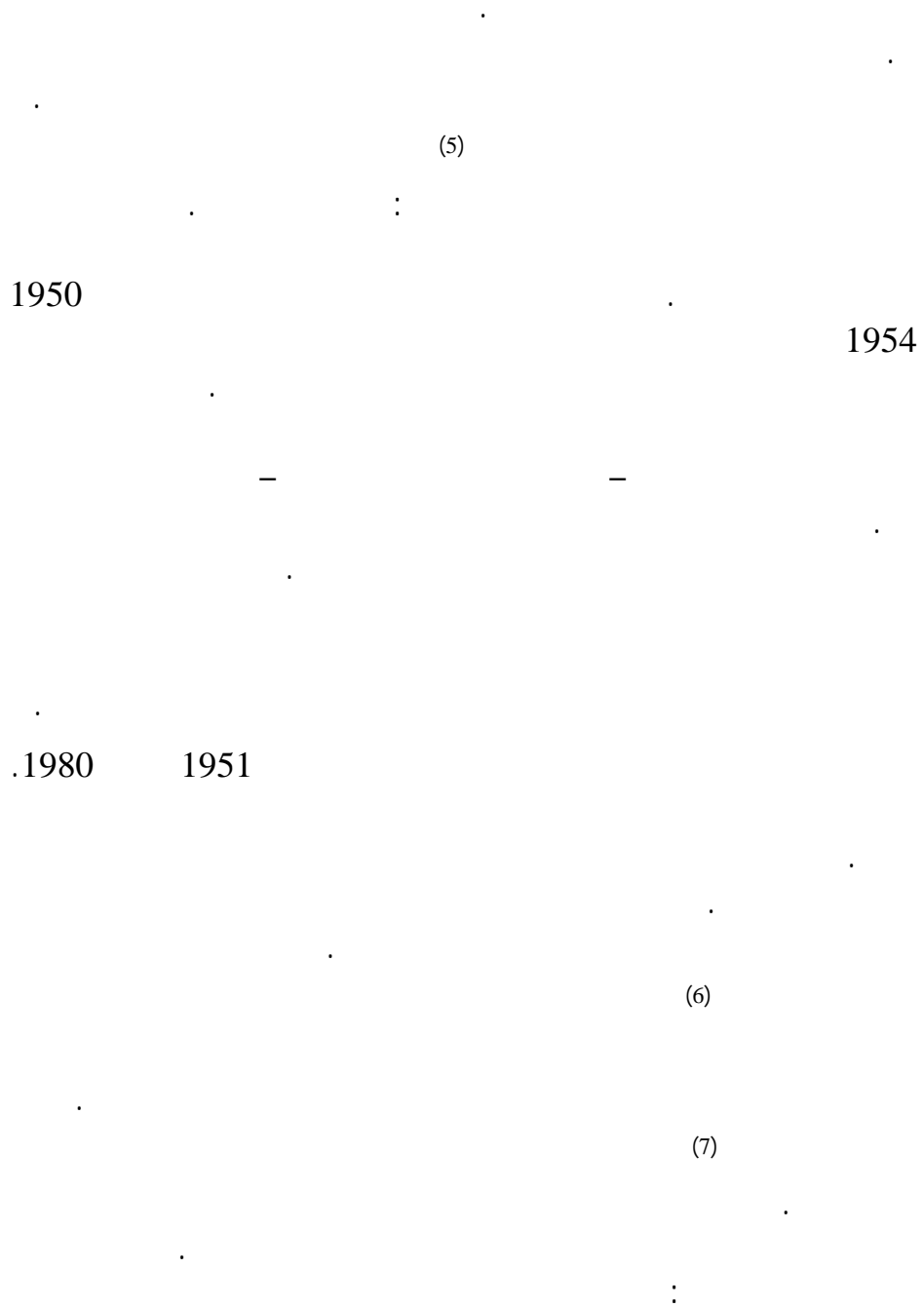
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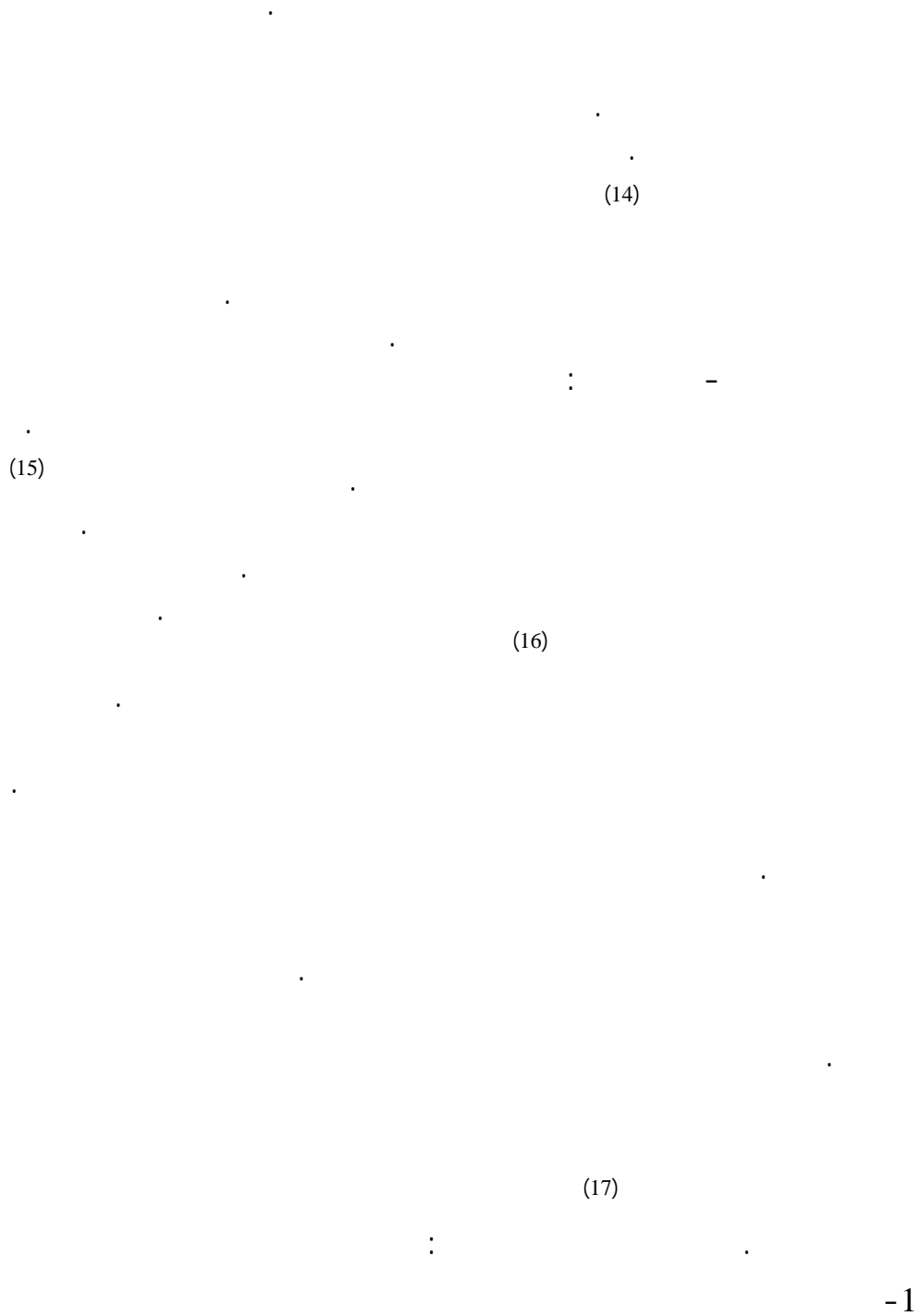


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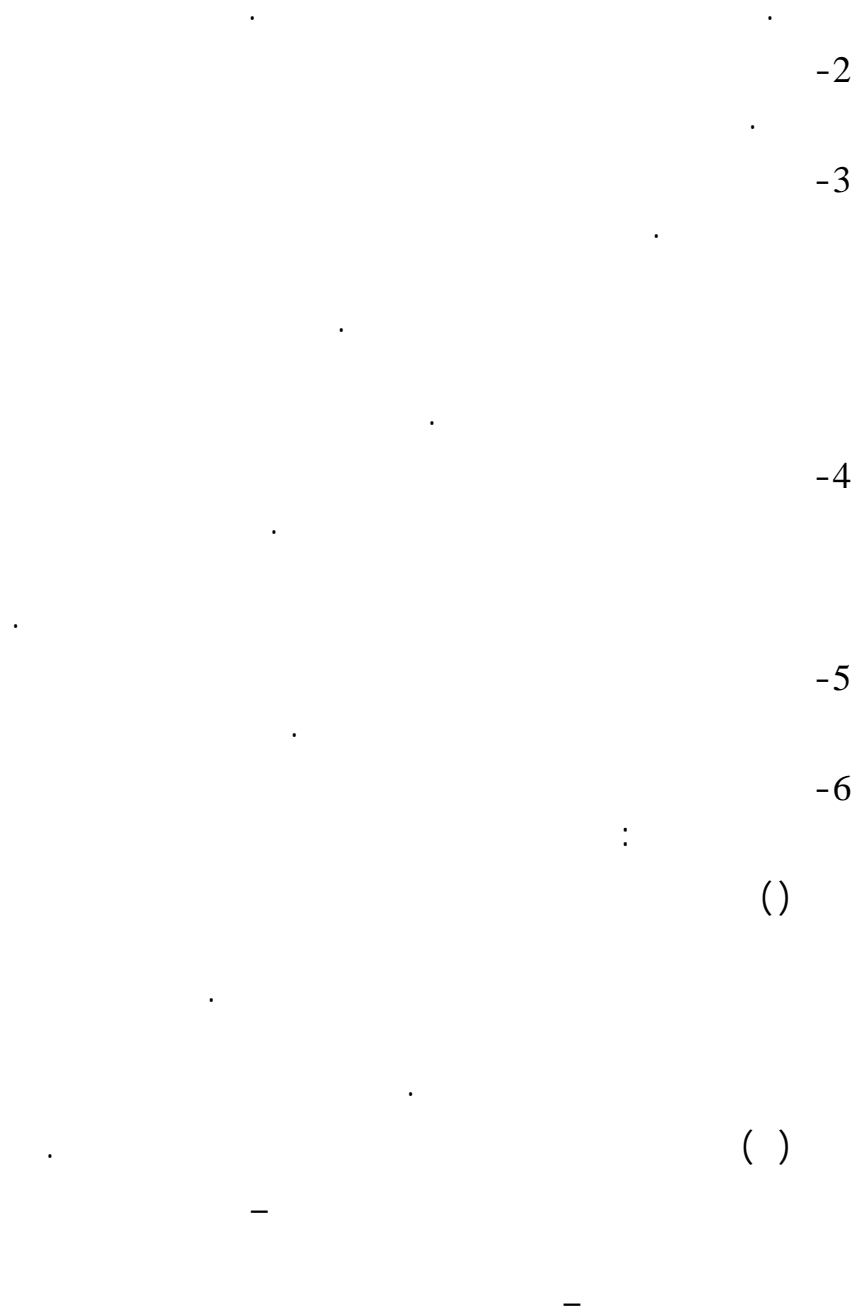
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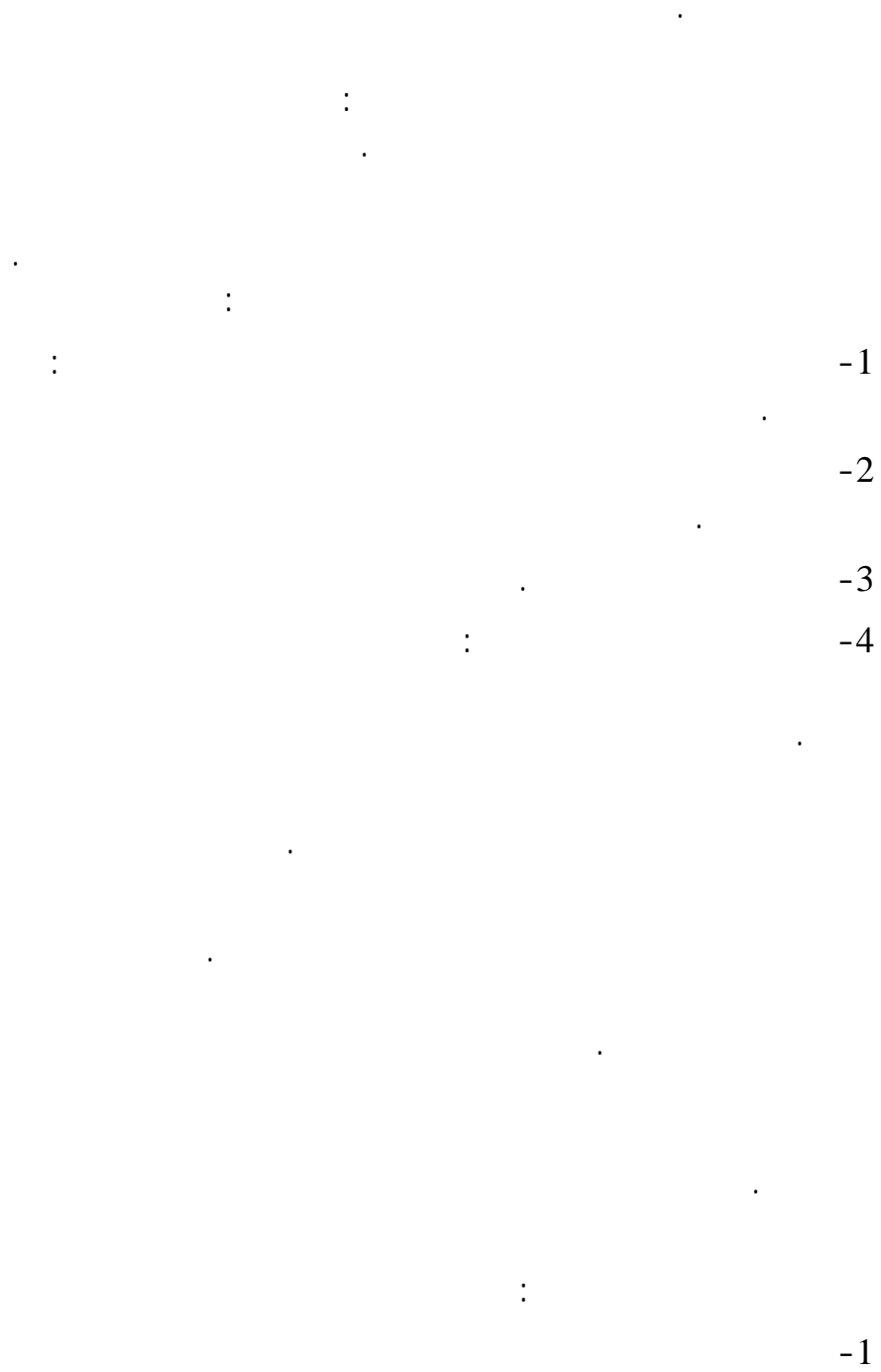
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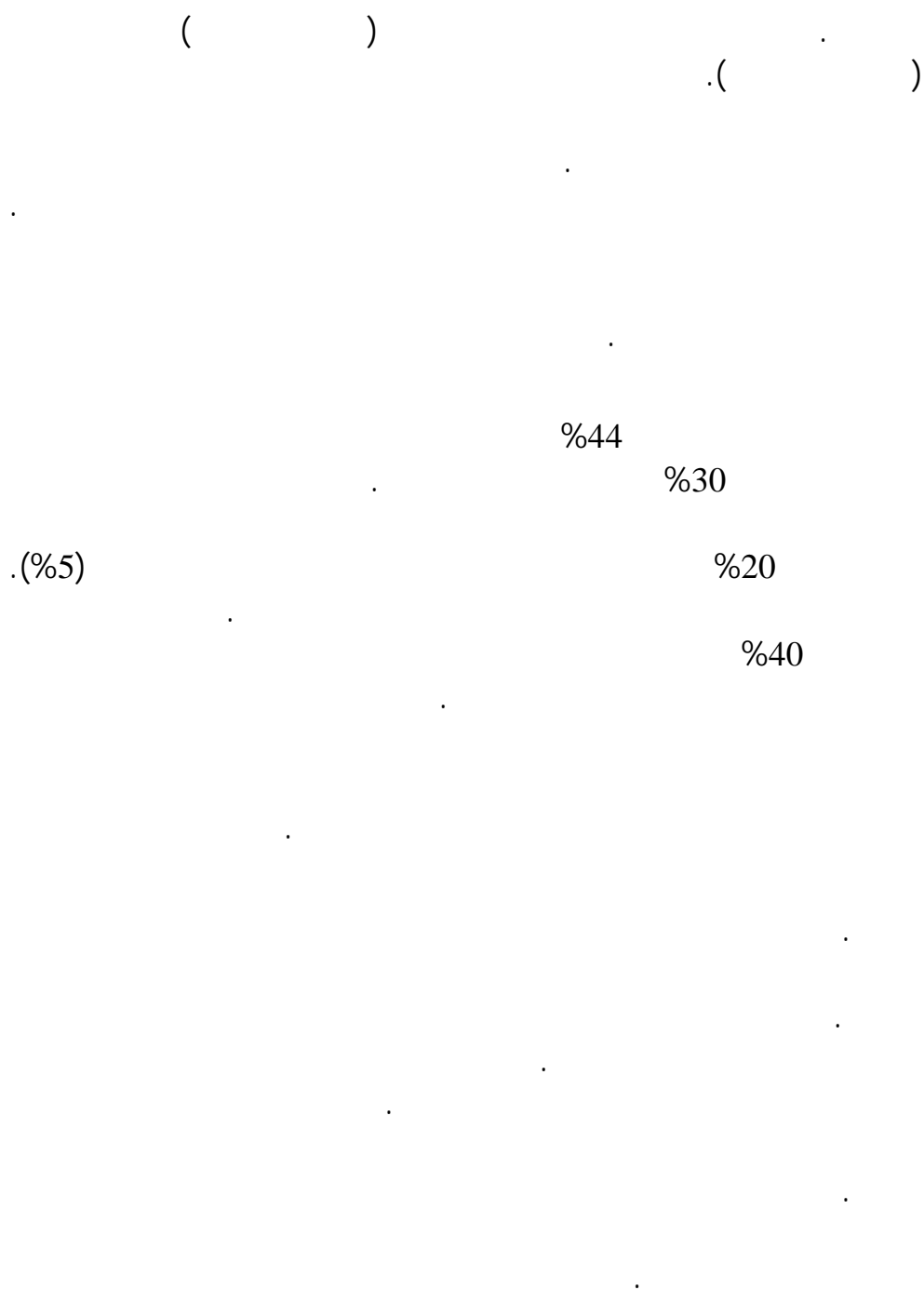
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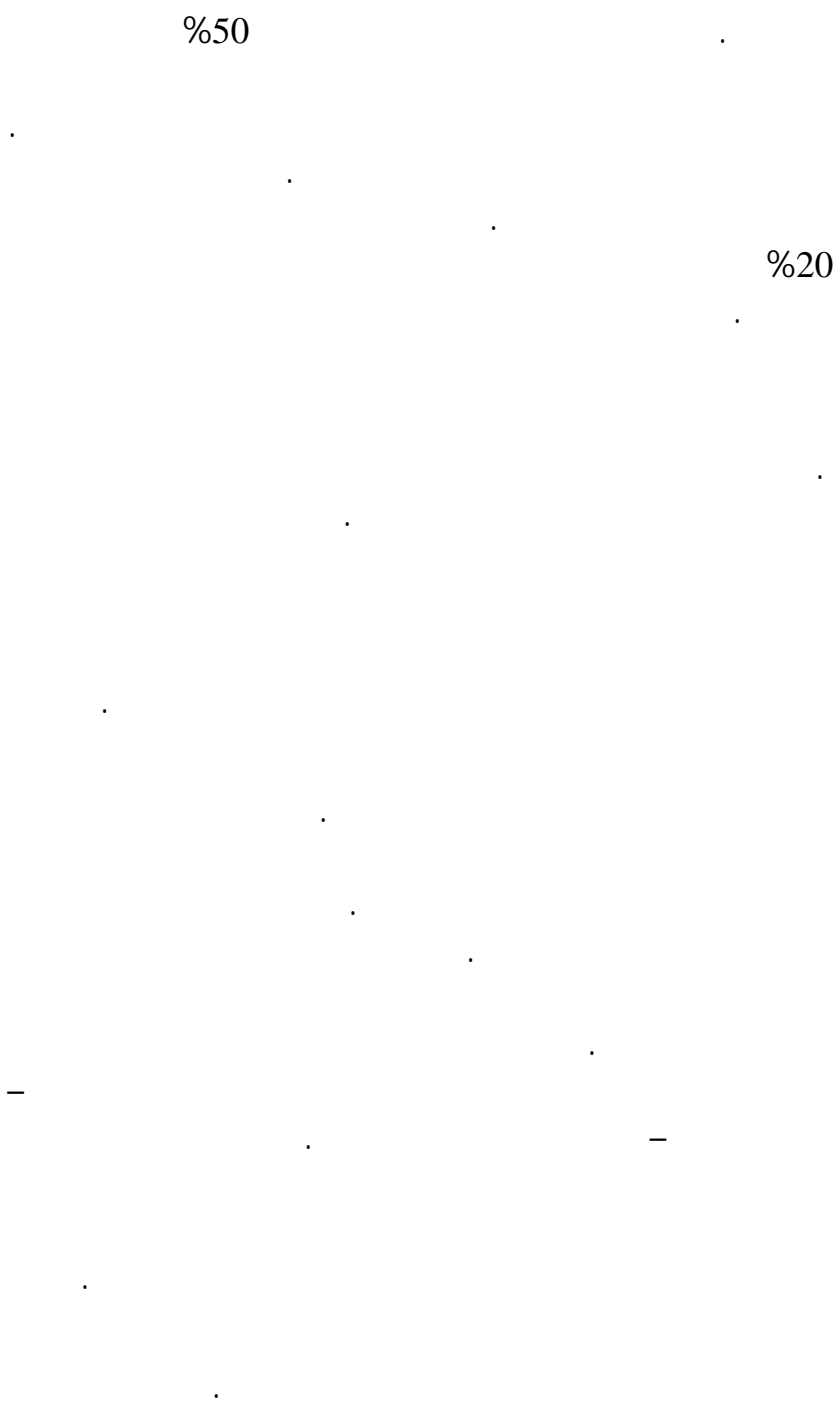
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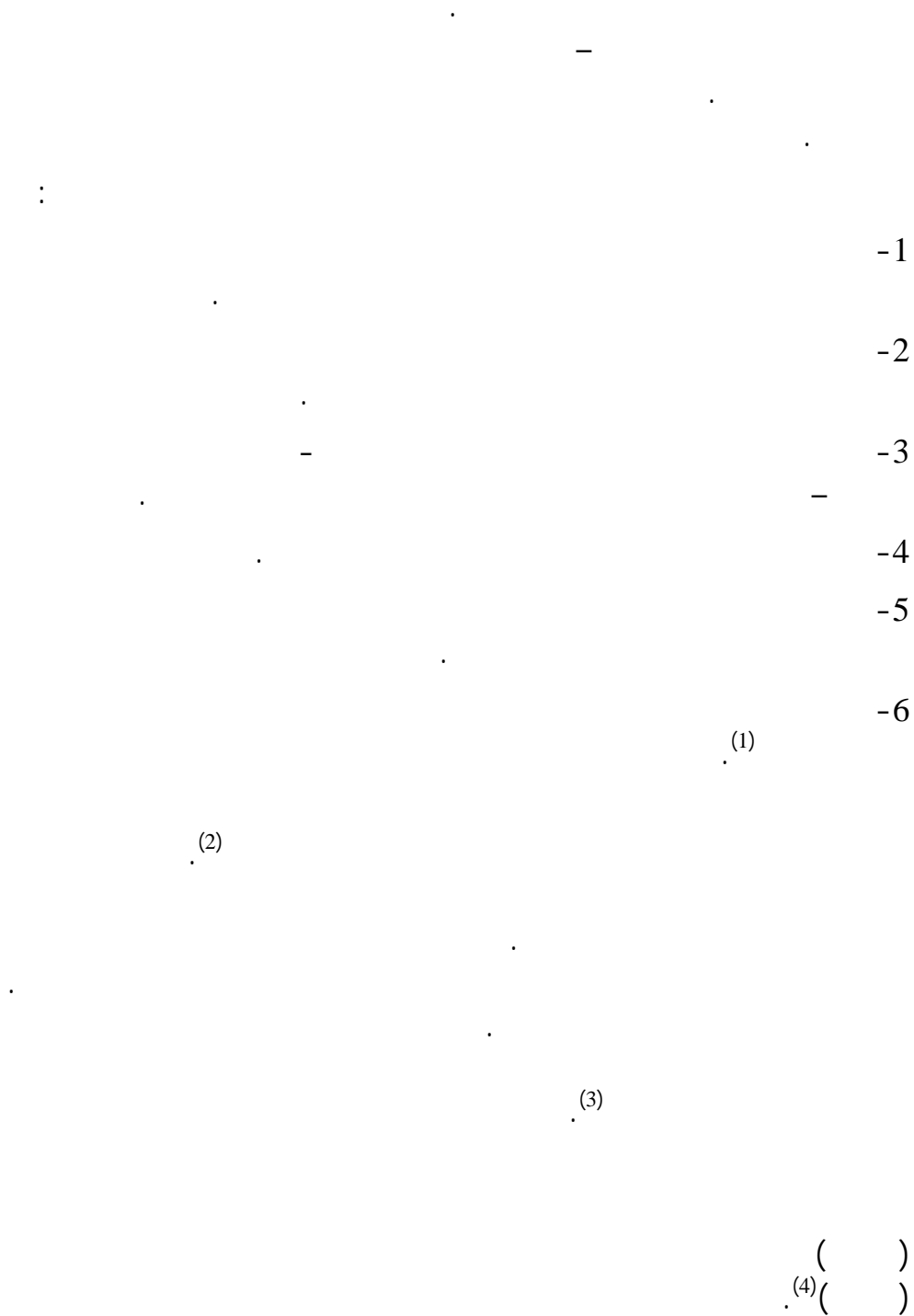
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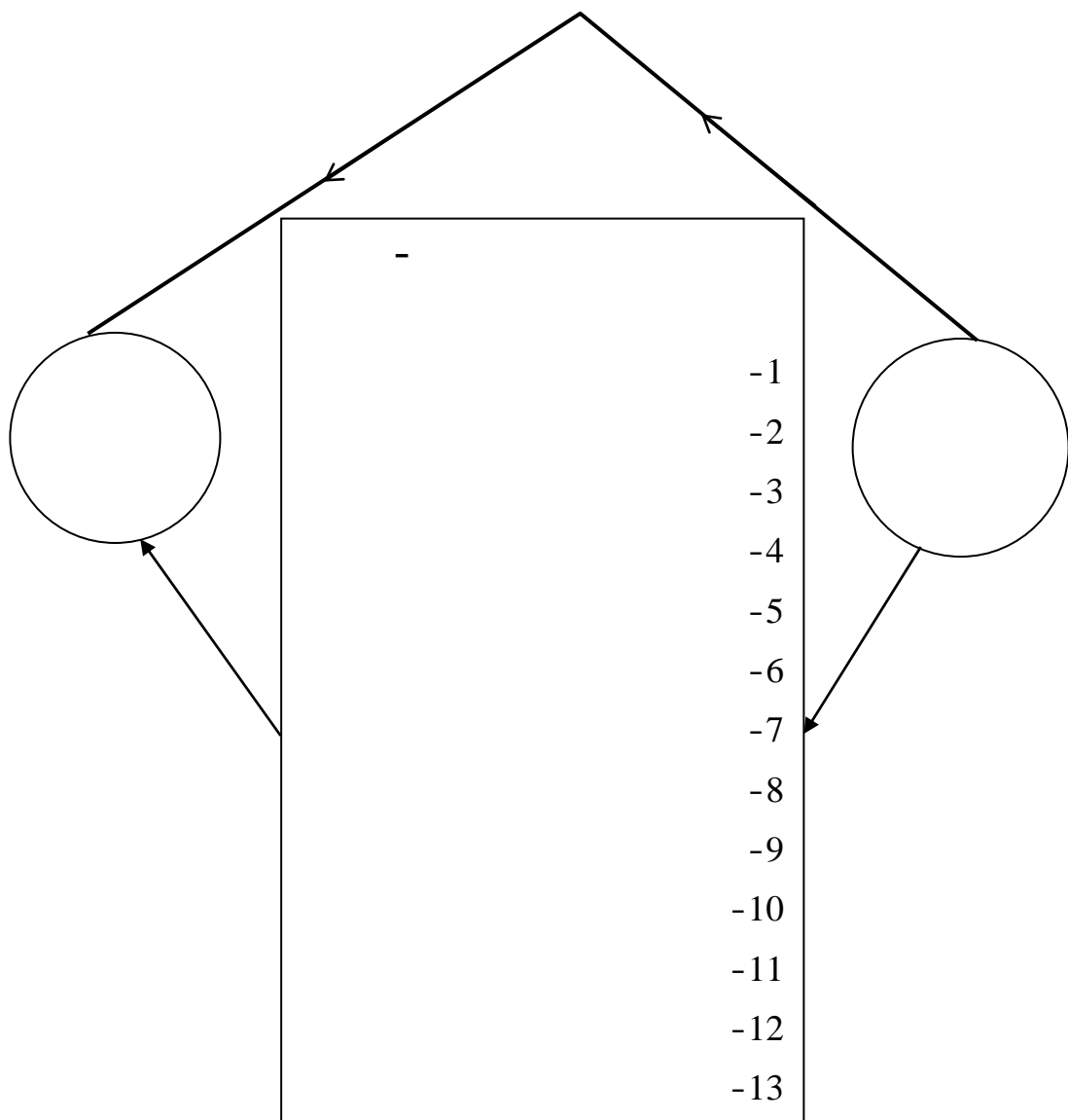
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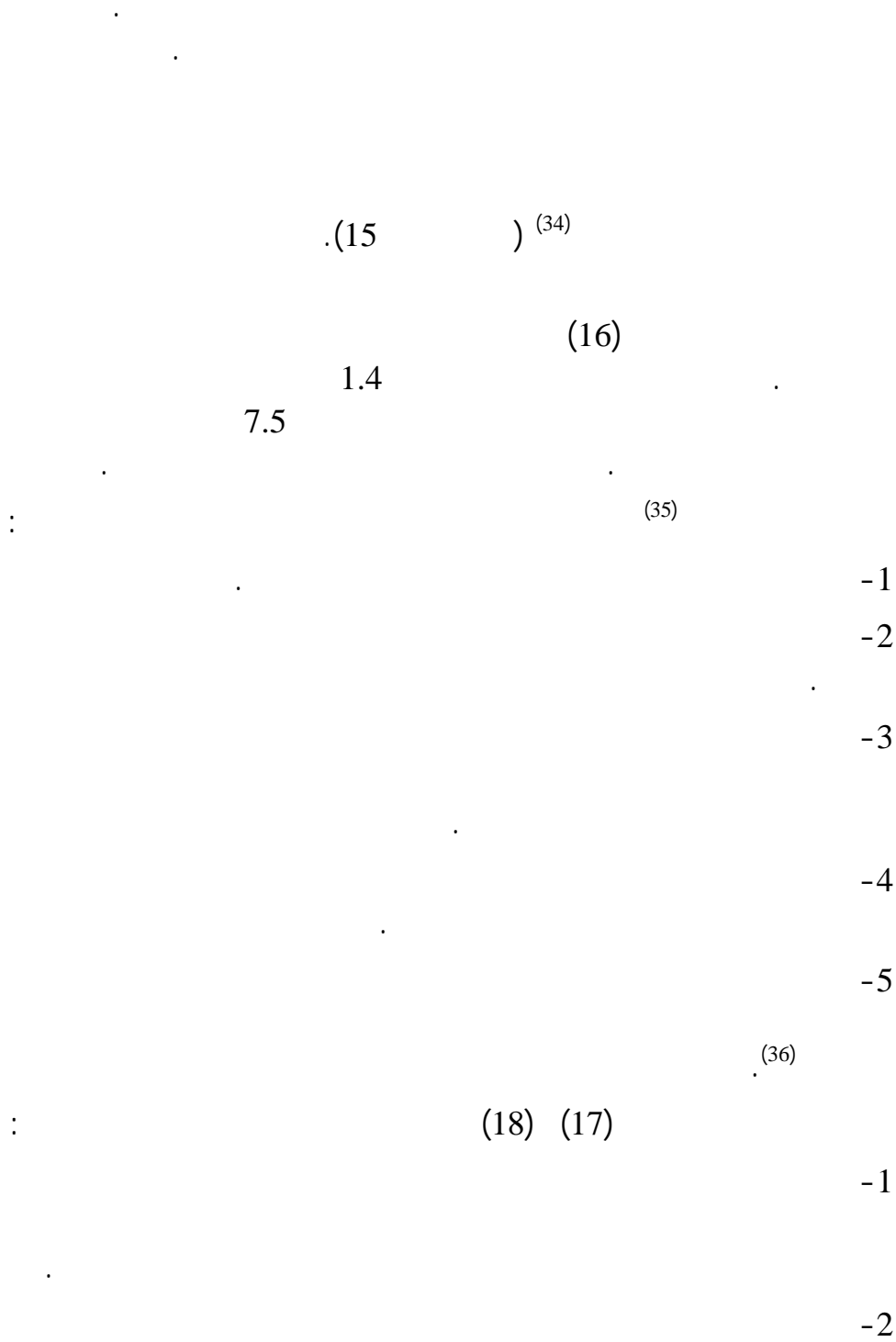
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: (42)  
1994 13-5 -  
.51-46  
: (43)  
: (1989) -

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-

(1)

%		%		%		%		
0.9	4	1.2	21	3.1	22	1.3	17	19-15
10.6	46	8.3	145	19.8	140	14.6	195	24-20
27.9	121	25.0	436	28.3	200	27.2	362	29-25
22.2	96	19.2	336	15.6	110	18.4	245	34-30
16.9	73	21.4	374	12.7	90	18.1	241	39-35
11.3	49	15.0	262	10.8	76	12.8	170	44-40
10.2	44	9.9	172	9.6	68	7.7	103	49-45
100.0	433	100.0	1746	100.0	706	100.0	1333	
32.7		33.7		31.1		32.1		(X)
7.570		7.375		8.115		7.491		(SD)
( ) 11.924				(0.01 ) 29.675				2
(0.01 ) 2.45				(0.01 ) 2.90				

(2)

%		%		%		%		
-	-	0.1	1	-	-	0.1	1	20 >
2.3	10	0.6	10	4.1	29	1.7	23	24-20
9.2	40	7.7	134	13.2	93	11.6	155	29-25
22.4	97	19.8	345	25.5	180	19.3	257	34-30
24.5	106	21.7	379	21.2	150	23.2	309	39-35
14.1	61	18.5	323	11.2	79	17.8	237	44-40
12.7	55	16.1	281	9.6	68	12.8	170	49-45
14.8	64	15.6	273	15.2	107	13.6	181	+ 50
100.0	433	100.0	1746	100.0	706	100.0	1333	
39.0		40.2		37.8		38.9		(X)
8.931		8.551		9.815		8.745		(SD)
(0.01 ) 21.689				(0.01 ) 38.392				2
(0.01 ) 2.58				(0.01 ) 2.63				



(3)

%		%		%		%		
30.0	130	27.8	485	54.7	386	42.7	569	20>
52.4	227	47.5	829	39.2	277	46.5	620	24-20
16.4	71	21.5	375	5.2	37	10.3	137	29-25
1.1	5	3.3	57	0.8	6	0.05	7	+30
100.0	433	100.0	1746	100.0	706	100.0	1333	
21.2		21.8		19.3		20.2		(X)
3.624		3.896		3.175		3.241		(SD)
(0.05		) 12.174		(0.01		) 34.203		2
(0.01		) 2.65		(0.01		) 5.80		

(4)

%		%		%		%		
23.1	100	21.6	378	23.8	168	21.7	289	4-1
29.3	127	24.8	433	26.9	190	24.1	321	9-5
15.0	65	18.3	319	16.4	116	18.4	245	14-10
12.5	54	14.1	246	11.0	78	14.3	191	19-15
9.7	42	13.0	227	9.9	70	13.1	174	24-20
7.2	31	6.1	106	7.9	56	7.0	93	29-25
3.2	14	2.1	37	4.0	28	1.5	20	+30
100.0	433	100.0	1746	100.0	706	100.0	1333	
11.5		11.8		11.8		12.00		(X)
8.416		7.992		8.697		7.933		(SD)
(		) 11.409		(0.01		) 23.447		2
(		) 0.83		(		) 0.58		

(5)

%		%		%		%		
24.7	107	14.9	261	50.4	356	41.0	546	
4.8	21	4.8	84	5.8	41	4.1	55	
13.4	58	10.0	175	8.6	61	9.2	123	
33.3	144	28.8	503	26.2	185	26.7	356	
6.2	27	5.9	103	2.0	14	5.5	73	
17.6	76	35.5	620	6.9	49	13.5	180	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 60.678				(0.01 ) 43.239				<sup>2</sup>

(6)

%		%		%		%		
13.9	60	7.9	138	30.2	213	22.8	304	
4.8	21	4.7	82	8.6	61	8.2	109	
12,	52	7.8	136	13.2	93	10.0	133	
32.8	142	23.8	416	27.5	194	27.2	362	
7.6	33	6.4	111	4.2	30	5.6	74	
28.9	125	49.4	863	16.3	115	26.3	351	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 64.789				(0.01 ) 36.162				<sup>2</sup>

(7)

%		%		%		%		
28.9	125	22.3	389	28.8	203	21.3	284	(*) /
68.8	298	76.0	1327	70.3	496	78.3	1044	(*) /
0.7	3	1.0	17	-	-	0.2	2	
1.6	7	0.4	7	0.6	4	0.2	2	
-	-	0.3	6	0.4	3	0.1	1	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 18.551				(0.01 ) 21.356				2
(*)								

(8)

%		%		%		%		
38.6	167	47.3	826	21.2	150	32.6	434	
61.4	266	52.7	920	78.8	556	67.4	899	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 10.685				(0.01 ) 28.896				2

(9)

%		%		%		%		
22.8	38	13.0	107	4.7	7	3.9	17	(*) /
77.2	129	87.0	719	95.3	143	96.1	417	(*) /
100.0	167	100.0	826	100.0	150	100.0	434	
(0.01 ) 10.700				( ) 0.159				2
.(7)								(*)

(10)

%		%		%		%		
90.8	393	95.8	1673	86.0	607	91.9	1225	
9.2	40	4.2	73	14.0	99	8.1	108	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 18.045				(0.01 ) 17.738				2

(11)

%		%		%		%		
63.5	275	70.3	1227	51.4	363	57.6	768	
36.5	158	29.7	519	48.6	343	42.4	565	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 7.413				(0.01 ) 7.178				2

(12)

								(*)
%		%		%		%		
61.9	268	69.1	1206	48.3	341	64.7	862	
32.6	141	25.5	445	41.4	292	29.0	387	
5.5	24	5.4	95	10.3	73	6.3	84	
100.0	433	100.0	1746	100.0	706	100.0	1333	
(0.01 ) 9.109				(0.01 ) 41.781				2
(*)								

(13)

(pi)

(pi)			(pi)			(pi)			(pi)			
0.250	1	4	0.476	10	21	0.818	18	22	0.882	15	17	19-15
1.239	57	46	1.297	188	145	1.700	245	140	1.574	307	195	24-20
2.132	258	121	2.060	898	436	2.905	581	200	2.619	948	362	29-25
2.990	287	96	2.771	931	336	4.073	448	110	3.780	926	245	34-30
4.397	321	73	3.751	1403	374	5.800	522	90	4.801	1157	341	39-35
5.592	274	49	4.256	1115	262	6.711	510	76	5.700	969	170	44-40
5.841	257	44	4.645	779	172	7.132	485	68	5.942	612	103	49-45
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
6.37			4.82			6.81			6.49			
0.61			0.53			0.63			0.58			
(0.01 ) 22.787						(0.01 ) 81.907						2
(0.01 ) 5.26						(0.01 ) 4.78						

(14)

(pi)

(pi)			(pi)			(pi)			(pi)			
-	-	-	0.00		1	-	-	-	1.00	1	1	20>
1.300	13	10	0.500	5	10	1.103	32	29	1.217	28	23	24-20
1.300	52	40	1.306	175	134	1.677	156	93	1.697	263	155	29-25
1.948	189	97	1.858	641	345	2.727	491	180	2.455	631	257	34-30
2.736	290	106	2.689	1019	379	3.713	557	150	3.204	990	309	39-35
3.918	239	61	3.427	1107	323	4.975	393	79	4.456	1056	237	44-40
5.364	295	55	4.185	1176	281	6.294	428	68	5.288	899	170	49-45
5.984	383	64	4.473	1221	273	7.028	752	107	5.890	1066	181	+50
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 346.7			(0.01 ) 889.2			(0.01 ) 554.7			(0.01 ) 751.9			2
0.69			0.58			0.66			0.61			

(15)

(pi)

(pi)			(pi)			(pi)			(pi)			
4.738	616	130	4.252	2062	485	4.622	1784	386	4.459	2537	569	20>
2.921	663	227	2.685	2226	829	3.242	898	277	3.174	1968	620	24-20
2.437	173	71	2.477	929	375	3.081	114	37	2.964	406	137	29-25
1.800	9	5	2.228	127	57	2.167	13	6	3.286	23	7	+30
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 95.1			(0.01 ) 329.9			(0.01 ) 76.8			(0.01 ) 145.8			2
0.41-			0.36-			0.30-			0.30-			

(16)

(pi)

(pi)			(pi)			(pi)			(pi)			
1.100	110	100	1.159	438	378	1.208	203	168	1.388	401	289	4-1
2.488	316	127	2.460	1065	433	2.932	557	190	2.807	901	321	9-5
3.462	225	65	3.263	1041	319	4.431	514	116	3.812	934	245	14-10
5.167	279	54	4.024	990	246	5.526	431	78	4.906	937	191	19-15
5.810	244	42	4.520	1026	227	7.057	494	70	5.787	1007	174	24-20
6.194	192	31	5.075	538	106	6.607	370	56	6.505	605	93	29-25
6.786	95	14	6.649	246	37	8.571	240	28	7.450	149	20	+30
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 561.4			(0.01 ) 1698.8			(0.01 ) 987.4			(0.01 ) 1350.5			2
0.82			0.73			0.82			0.76			

(17)

(pi)

(pi)			(pi)			(pi)			(pi)			
5.047	540	107	4.743	1238	261	5.028	1790	356	4.773	2606	546	
4.619	97	21	4.369	367	84	4.268	175	41	4.273	235	55	
3.914	227	58	4.103	718	175	4.148	253	61	4.163	512	123	
2.597	374	144	2.785	1401	503	2.378	440	185	2.803	998	356	
2.111	57	27	2.340	241	103	3.071	43	14	2.575	188	73	
2.184	166	76	2.224	1379	620	2.204	108	49	2.194	395	180	
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 184.2			(0.01 ) 589.3			(0.01 ) 196.2			(0.01 ) 360.1			2
0.45-			0.46-			0.46-			0.46-			

(18)

(pi)

(pi)			(pi)			(pi)			(pi)			
4.983	299	60	4.406	608	138	5.052	1076	213	4.601	1399	304	
5.810	122	21	4.780	392	82	5.016	306	61	5.055	551	109	
2.808	198	52	4.243	577	136	4.731	440	93	4.549	605	133	
2.951	419	142	3.163	1316	416	3.82	598	194	3.423	1239	362	
2.515	83	23	2.874	319	111	3.833	115	30	3.054	226	74	
2.720	340	125	2.470	2132	863	2.383	274	115	2.604	914	351	
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 138.8			(0.01 ) 362.3			(0.01 ) 195.2			(0.01 ) 256.6			2
0.32-			0.37-			0.35-			0.34-			

(19)

(pi)

(pi)			(pi)			(pi)			(pi)			
4.008	501	125	3.620	1408	389	5.128	10412	203	4.729	1343	784	/
3.057	911	298	2.886	3830	1327	3.520	1746	496	3.406	3556	1044	/
5.000	15	3	4.00	68	17	-	-	-	7.500	15	2	
4.857	34	7	3.143	22	7	4.750	19	4	8.500	17	2	
-	-	-	2.667	16	6	1.000	3	3	3.000	3	1	
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.05 ) 105.6			(0.05 ) 116.5			(0.01 ) 114.3			(0.01 ) 200.2			2
0.18-			0.88-			0.38-			0.30-			

(20)

(pi)

(pi)			(pi)			(pi)			(pi)			
2.880	481	167	2.609	2155	826	2.920	438	150	2.984	1295	434	
3.684	980	266	3.466	3189	920	4.264	2371	556	4.048	3639	899	
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 135.1			(0.01 ) 125.4			(0.01 ) 37.8			(0.01 ) 82.9			<sup>2</sup>
0.18-			0.25-			0.32-			0.29-			

(21)

(pi)

(pi)			(pi)			(pi)			(pi)			
3.421	130	38	2.430	260	107	5.286	37	7	4.118	70	17	/
2.721	351	129	2.636	1895	719	2.804	401	143	2.938	1225	417	/
2.880	481	167	2.609	2155	826	2.920	438	150	2.984	1295	434	
( ) 11.3			( ) 15.0			(0.01 ) 43.9			(0.05 ) 17.5			<sup>2</sup>
0.23-			0.24-			0.22-			0.27 -			



(22)

(pi)

(pi)			(pi)			(pi)			(pi)			
3.206	1260	393	3.052	5106	1673	3.751	2277	607	3.687	4516	1225	
5.025	201	40	3.260	238	73	5.374	532	99	3.870	418	108	
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 95.2			(0.01 ) 49.5			(0.01 ) 43.0			(0.01 ) 59.1			<sup>2</sup>
0.30-			0.05-			0.25-			0.04-			

(23)

(pi)

(pi)			(pi)			(pi)			(pi)			
3.342	919	275	3.282	4027	1227	4.088	1484	363	3.945	3030	768	
3.430	542	158	2.538	1317	519	3.863	1325	343	3.370	1908	565	
3.374	1461	433	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 82.6			(0.01 ) 242.8			(0.01 ) 76.3			(0.01 ) 147.2			<sup>2</sup>
0.10-			0.35-			0.13-			0.25-			

(24)

(pi)

(pi)			(pi)			(pi)			(pi)			
3.392	909	268	3.155	3805	1206	4.141	1412	341	3.816	3289	862	
3.461	488	141	2.978	1325	445	3.983	1163	292	3.618	1400	387	
3.416	1397	409	3.107	5130	1651	4.068	2575	633	3.754	4689	1249	
(0.01 ) 86.4			(0.01 ) 171.6			(0.01 ) 77.7			(0.01 ) 113.02			2
0.11-			0.19-			0.15-			0.16-			
												(*)

(25)

(pi)

(pi)			(pi)			(pi)			(pi)			
0.043	1	23	0.074	6	81	0.103	4	39	0.029	1	35	
2.206	578	262	2.282	2674	1172	2.335	829	355	2.334	1734	743	3-1
5.136	565	110	5.059	2216	438	5.511	1284	233	5.167	2377	460	6-4
8.342	317	38	8.145	448	55	8.759	692	79	8.653	822	95	+7
3.374	1461	423	3.061	5344	1746	3.979	2809	706	3.701	4934	1333	
(0.01 ) 1091.2			(0.01 ) 3886.8			(0.01 ) 1593.7			(0.01 ) 3185.7			2
0.99			0.98			0.98			0.97			

( ) :()

																	**0.85	
																*0.08-	*0.08	
															-	**0.84	**0.91	
														-	**0.33			
														-	**0.49	-	-	
													**0.79	**0.41	**0.24	**0.21		
													-	**0.28	**0.41	-	-	
												**0.48	**0.39	-	**0.22	**0.14	**0.12	
													-	**0.13	0.02-	0.03-		
													-	**0.19	**0.09	0.03		
										**0.26	-	**0.46	**0.58	**0.37	**0.37	**0.09	0.03	
									**0.99	-	-	-	**0.18	-	**0.09	0.03		
									**0.26	**0.46	**0.58	**0.37	-	**0.37	**0.49	**0.51	( )	
								**0.19	**0.19	-	-	-	**0.58	**0.25	**0.46	**0.50	( )	
							**0.21	**0.14	**0.15	-	-	-	**0.58	-	**0.26	**0.61	**0.64	( )
						**0.78	**0.78	**0.22	**0.22	**0.14	**0.27	**0.34	**0.75	**0.33	**0.45	**0.47	( )	
							**0.69	**0.14	**0.93	**0.19	**0.20	-	**0.54	-	**0.45	**0.47	( )	
										**0.17	**0.28	**0.34	**0.55	**0.22	**0.44	**0.48	( )	
					**0.12	**0.71	**0.95	**0.15	**0.13	**0.13	-	-	**0.55	-	**0.44	**0.48	( )	
				**0.76	**0.73	**0.94	**0.75	**0.71	**0.22	**0.22	**0.12	**0.25	**0.32	**0.22	**0.60	**0.64	( )	
										-	-	-	**0.73	-	**0.60	**0.64	( )	
			0.01	0.05	0.03-	0.02	0.04	0.004	**0.09	**0.09	0.07-	**0.16	**0.14	0.01	0.06-	0.003-	0.01-	
		**0.34	-	-	-	-	-	-	**0.12	**0.12	-	-	0.05-	-	0.01	-	-	
	**0.35	**0.28	**0.14	**0.10	**0.11	**0.12	**0.10	**0.10	**0.12	**0.12	**0.14	**0.13	0.05-	**0.19	0.05-	**0.19	**0.19	
			-	0.06-	-	*0.09-	*0.05-	*0.09-	*0.09	*0.09	*0.08	0.06-	0.04-	0.06-	0.05-	*0.08-		
		**0.11			**0.11													

0.01 \*  
0.001 \*

( ) :( )

																	**0.90	
																0.08 -	-	0.001
															**0.36	**0.87	**0.93	
													-0	**0.42	-	-	-	
												**0.75	**0.41	**0.38	**0.27	**0.28	-	
												-	**0.35	-	**0.20	**0.23	-	
											**0.48	**0.39	-	**0.16	-	-	-	
											-	-	**0.23	**0.16	**0.16	**0.19	-	
										**0.22	**0.43	**54. -	**0.22	**39. -	**0.13	0.08	-	
									**0.99	-	-	-	**0.22	-	**0.13	0.08	-	
									**0.22	**0.43	**0.54	-	**0.39	-	**0.56	**0.60	( )	
								**0.16	**0.16	**0.21	**0.31	**0.35	**0.66	**0.27	**0.52	**0.56	( )	
							**0.30	**0.16	**0.16	-	-	-	**0.62	-	**0.52	**0.56	( )	
							-	**0.19	**0.28	**0.33	**0.33	**0.79	**0.28	**0.68	**0.72	( )	-	
						**0.80	**0.81	**0.20	**0.20	**0.25	**0.37	**0.42	**0.79	**0.34	**0.56	**0.58	( )	
						**0.73	**0.24	**0.93	**0.16	**0.17	-	-	**0.64	-	**0.56	**0.58	( )	
					**0.21	**0.72	**0.94	**0.24	**0.14	**0.14	**0.18	**0.28	**0.33	**0.27	**0.48	**0.53	( )	
					-	-	-	-	-	-	**0.16	**0.24	**0.31	**0.58	**0.25	**0.48	**0.53	( )
				**0.78	**0.77	**0.94	**0.76	**0.75	**0.19	**0.19	-	-	**0.78	-	**0.67	**0.71	( )	
			**0.14	*0.12	*0.11	**0.17	**0.12	**0.15	0.08	0.08	**0.22	**0.34	**0.41	**0.33	**0.33	**0.10	*0.11	( )
			-	-	-	-	-	-	-	-	**0.15	**0.18	**0.21	**0.13	0.08 -	*0.10	*0.11	
		**0.41	0.09 -	0.03 -	-	0.04 -	0.01 -	0.06 -	0.07	0.07	0.08 -	-	0.09 -	-	0.01 -	-	-	
		-	-	-	*0.11	-	-	-	-	-	*0.11	*0.11	**0.12	**0.12	**0.13	**0.14	-	
	**0.37	**0.26	-	-	0.05 -	0.09 -	*0.11	0.03 -	*0.11	*0.11	0.03 -	0.09 -	0.05 -	0.07 -	0.03 -	0.06 -	0.09 -	
			*0.12	**0.13														

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																	**0.87	
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														-	**0.39	**0.23	**0.19	
													**0.75	-	**0.36	-	-	
													**0.25	**0.12	**0.09			
												**0.45	**0.35	0.04 -	**0.18	0.04	0.05	
												-	**0.14	-	0.04	0.05 -		
										**0.23	**0.36	-	**0.50	-	**0.41			
									**0.99	-	-	-	**0.15	-	0.04	0.05 -		
									**0.22	**0.35	**0.49	**0.15	**0.40					
								**0.18	**0.18	-	-	**0.50	-	**0.41	**0.41	( )		
								**0.10	**0.29	**0.36	-	**0.54	**0.27	**0.41	**0.43	( )		
							**0.11	**0.15	**0.15	-	-	**0.36	-	**0.30				
							**0.08	**0.28	**0.36	-	-	0.70	-	**0.55	**0.56	( )		
							**0.73	**0.75	**0.22	**0.22	-	-	-	-				
							**0.12	**0.38	**0.48	-	-	0.70	**0.38	-				
						**0.66	0.04	**0.93	**0.15	**0.15	-	-	**0.47	-	**0.38	**0.39		
						**0.09	**0.25	**0.31	**0.51	-	-	**0.22	**0.38	**0.39	**0.41	( )		
					0.00	0.67	**0.96	0.05	**0.13	**0.13	-	-	**0.33	-	**0.28	-	**0.39	**0.41
				**0.71	**0.70	**0.94	**0.71	**0.69	**0.20	**0.20	*0.07	**0.25	**0.45	**0.69	**0.55	**0.57	( )	
				-	-	-	-	-	0.04	0.04	**0.12	**0.35	**0.45	**0.36	**0.55	**0.57	( )	
			0.01	0.04 -	0.04	0.02	0.03 -	0.06	0.06	0.06	-	0.09 -	-	0.02	0.6 -	0.02	0.01 -	
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	**0.34	**0.17	**0.21	**0.16	**0.14	**0.18	**0.16	**0.11	-	0.05	0.06	0.07 -	0.03 -	0.01 -	**0.23	**0.20	**0.24	
			**0.13	**0.08	**0.10	**0.09	*0.07	*0.07	-	0.04 -	0.05 -	0.06 -	-	0.01 -	*0.07	**0.09		

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													**0.42	**0.27	**0.22			
												**0.72	-	**0.40	-	*0.13-		
													**0.28	**0.16				
											**0.48	**0.35	0.04-	**0.19	0.04	0.04		
											-	-	*0.13	-	0.06	0.03-		
									**0.20	**0.31	**0.49			**0.27				
									**0.99	-	-	*0.13	-	**0.37	0.06	0.03-		
									**0.20	**0.31	**0.48							
								*0.14	*0.15	0.04-	-	-	**0.63	-	**0.57	**0.54	( )	
								**0.25	0.12	0.12	0.12-	**0.28	**0.39	**0.33				
											-	**0.29	**0.36	**0.60	**0.29-	**0.50	**0.53	( )
							**0.78	**0.80	**0.16	**0.17	0.10-	-	-	**0.78	-	**0.68	**0.68	( )
											**0.36	**0.48		**0.40				
						**0.76	**0.22	**0.97	0.12	*0.13	0.06-	-	**0.62	-	**0.55	**0.54		
											**0.27	**0.29	**0.54	**0.32			( )	
					**0.17	**0.71	**0.96	**0.19	0.11	0.11	0.10-	-	-	**0.27	-	**0.47	**0.48	( )
				**0.76	**0.77	**0.97	**0.77	**0.76	-*0.15	**0.16	0.10-	**0.36	**0.48	**0.76	*0.29-	**0.67	**0.67	( )
			**0.21	**0.14	**0.18	**0.23	**0.17	**0.18	0.10	0.11	0.09-	-	-	**0.17	-	*0.15	*0.13	
		-	0.01-	0.004-	0.01-	0.02	0.01	0.02	**0.18	**0.19	*0.14-	**0.21	**0.19	**0.17	**0.17	*0.10-	*0.13-	
	**0.43	**0.37	0.04-	0.02-	0.04-	0.04-	0.02-	0.04-	**0.15	**0.16	0.07-	*0.13-	*0.160	0.01-	0.06-	0.04-	0.03-	
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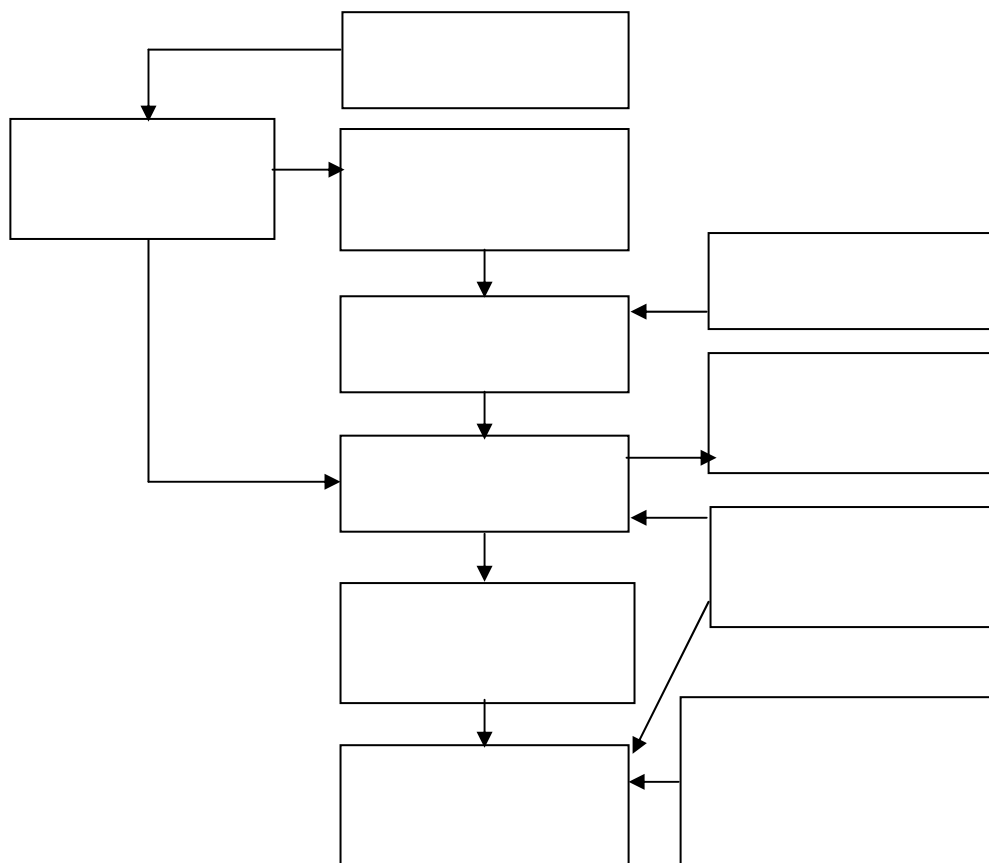
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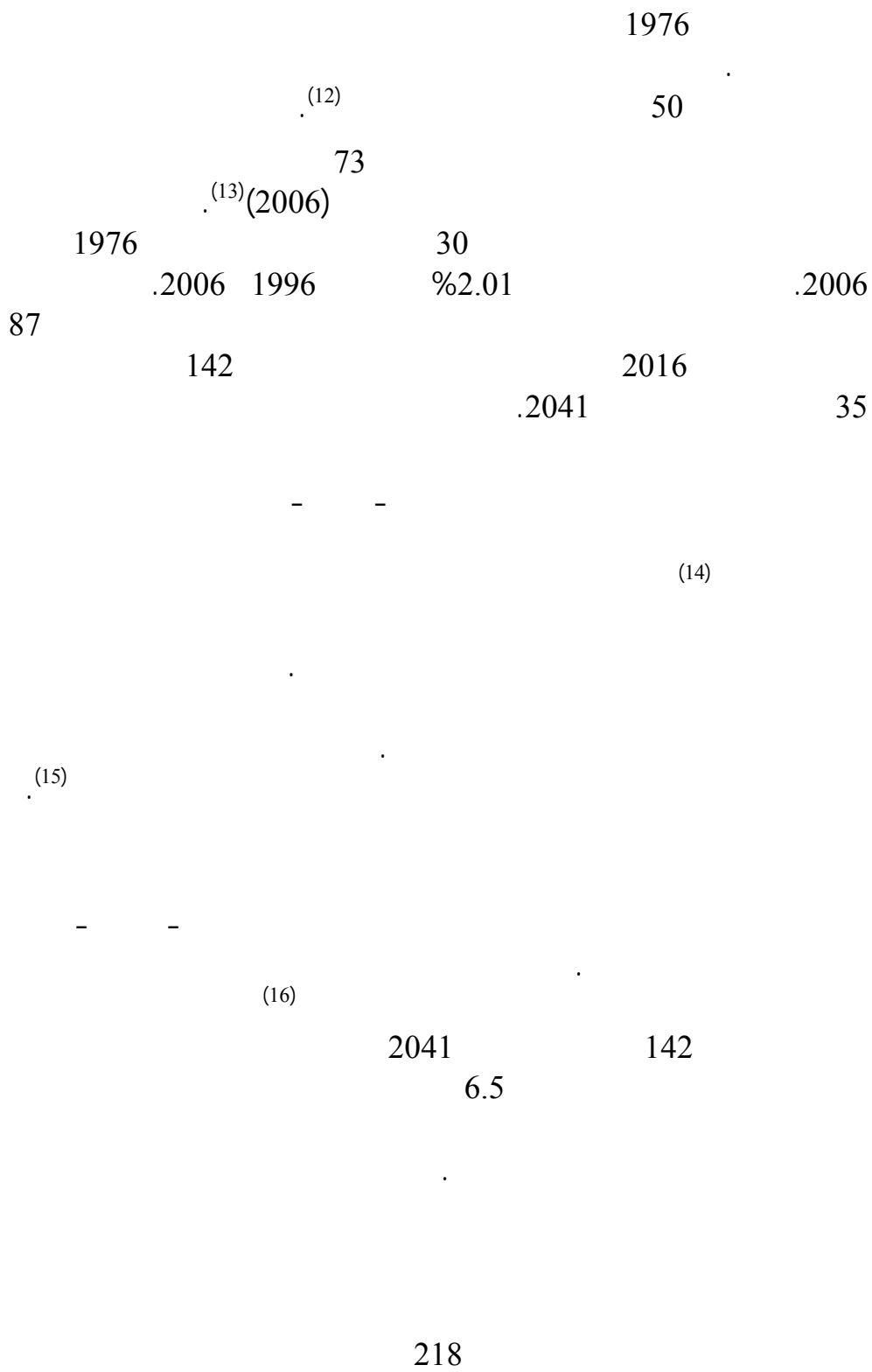
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2005	2000	1995	1992	1991	1988	
2.7	3.1	3.0	2.9	3.3	3.5	
3.4	3.9	4.2	4.9	5.6	5.4	
2.5	2.9	2.8	2.7	2.9	3.0	
2.9	3.2	3.2	3.7	-	4.5	
2.7	3.1	2.7	2.8	3.5	3.8	
3.0	3.3	3.5	4.1	4.9	4.7	
3.7	4.2	4.7	5.2	-	5.4	
3.1	3.4	3.8	3.6	3.9	4.2	
3.9	4.7	5.2	6.0	6.7	6.2	
3.3	3.8	4.0	-	-	-	
3.1	3.5	3.6	3.9	4.1	4.4	

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%17.1 %78.4 -1  
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%20 %38.8 -2

1996

%21.6 -3

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	+20	19-11	10≤	
3.5	5.3	3.3	1.8	
54.4	36.0	73.0	62.0	(%)
20.7	20.6	20.9	20.8	( )
26.1	26.3	26.3	26.3	( )

%62  
%36

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26

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	+20	19-10	10≤	
18.3	16.3	18.4	20.1	
20.1	18.4	20.3	21.8	
2.0	1.9	2.0	2.2	
28.0	31.4	28.3	24.1	
9.5	13.4	8.4	3.9	:
0.8	0.7	1.0	1.9	( )
10	8	12	23	( )

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<sup>2</sup>		+20	19-11	10≤	
×	84.1	77.4	88.1	88.2	-1
√	47.3	60.2	39.0	39.8	70 -2
√	86.1	81.7	94.9	84.9	-3
√	83.3	91.4	83.1	75.3	-4
×	86.9	88.2	86.4	86.0	-5
×	18.8	15.1	28.8	16.1	-6
×	57.6	59.1	62.7	52.7	-7
×	52.2	51.6	52.5	52.7	-8
×	75.5	71.0	86.4	73.1	-9
√	40.8	43.0	47.5	34.4	-10
√	58.8	57.0	52.5	64.5	-11
×	81.2	78.5	84.7	81.7	-12
×	76.3	71.0	80.0	79.6	-13
√	70.6	66.7	83.1	66.7	-14
√	21.6	23.7	27.1	16.1	-15
×	19.2	22.6	16.9	17.2	-16
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10.4	2.0	
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72.9	278840	74.7	199213	<b>1</b>
0.3	1282	0.4	1025	
1.4	5309	0.4	944	
74.6	285431	75.5	201182	
9.9	37746	8.3	22112	<b>2</b>
13.2	50622	14.4	38325	
0.5	1960	0.7	1946	
1.7	6641	0.9	2406	
25.4	96969	24.3	64789	<b>3</b>
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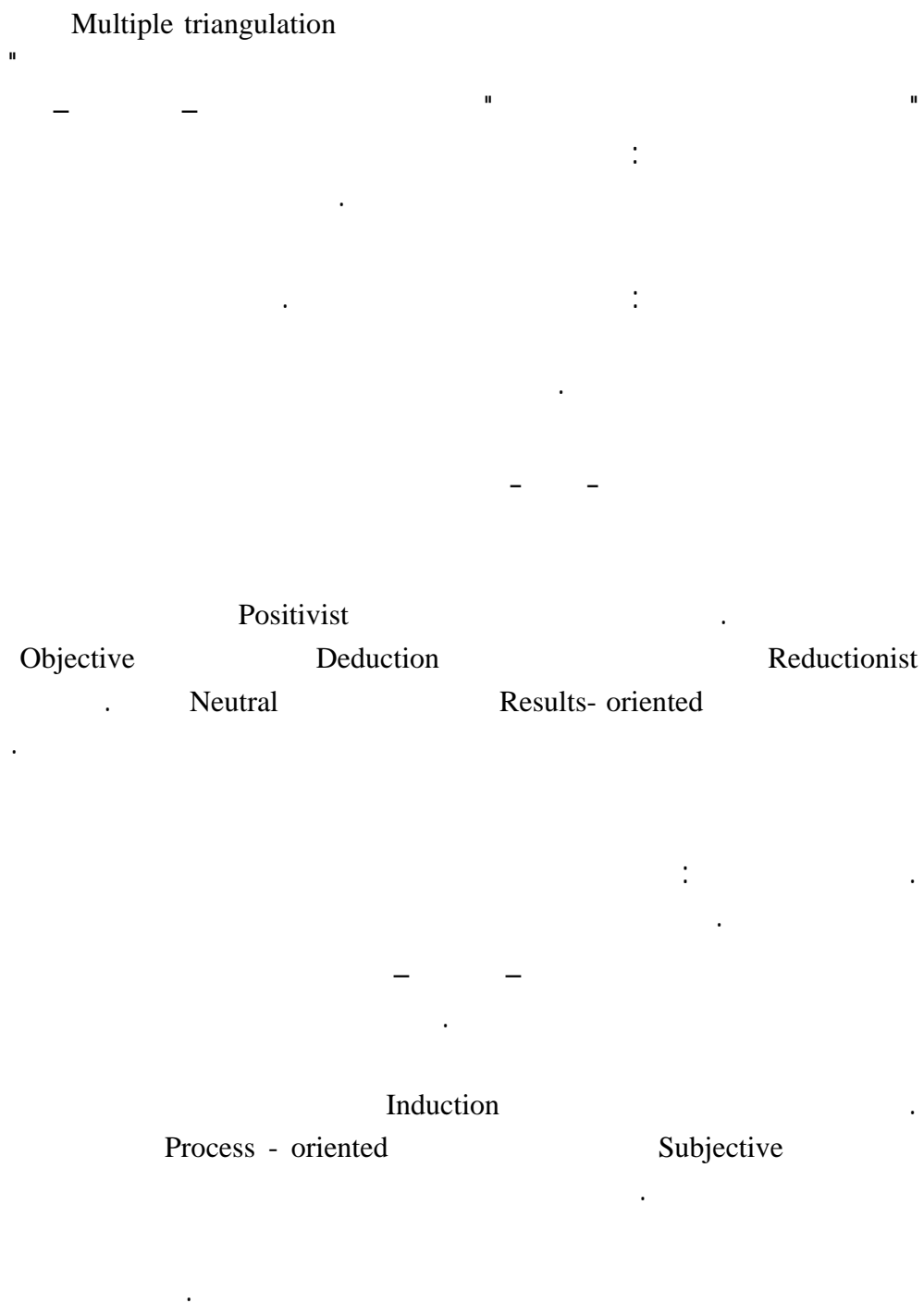
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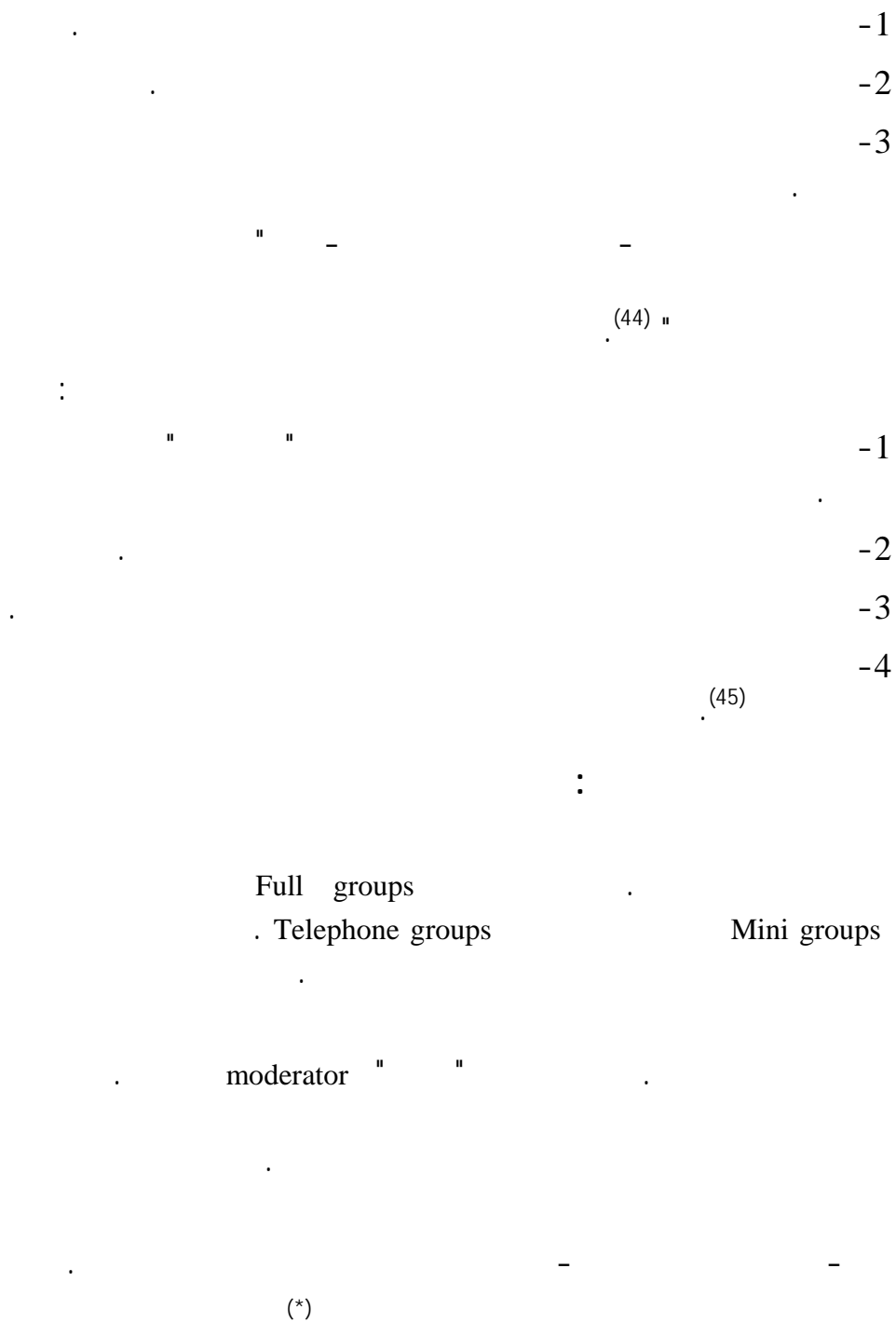
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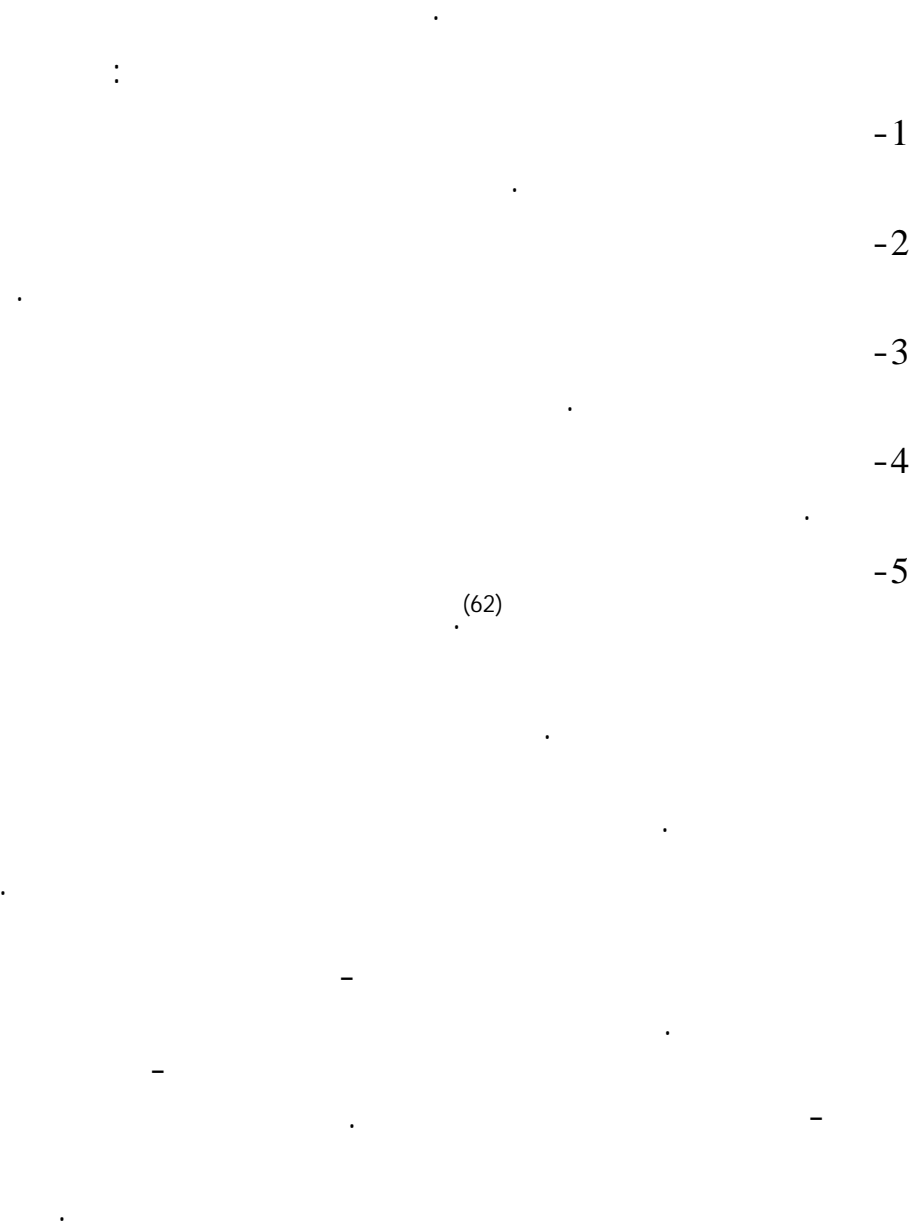
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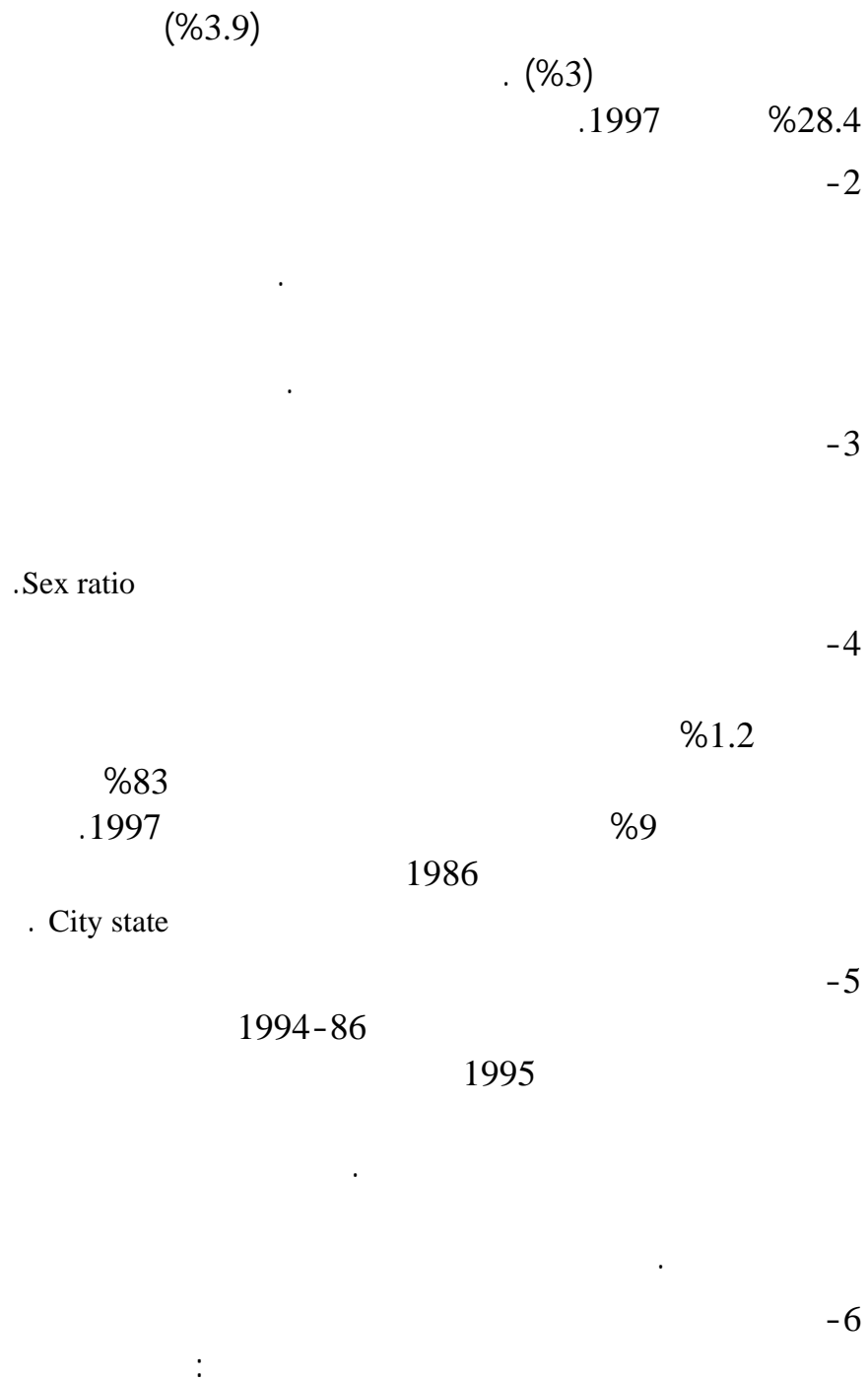
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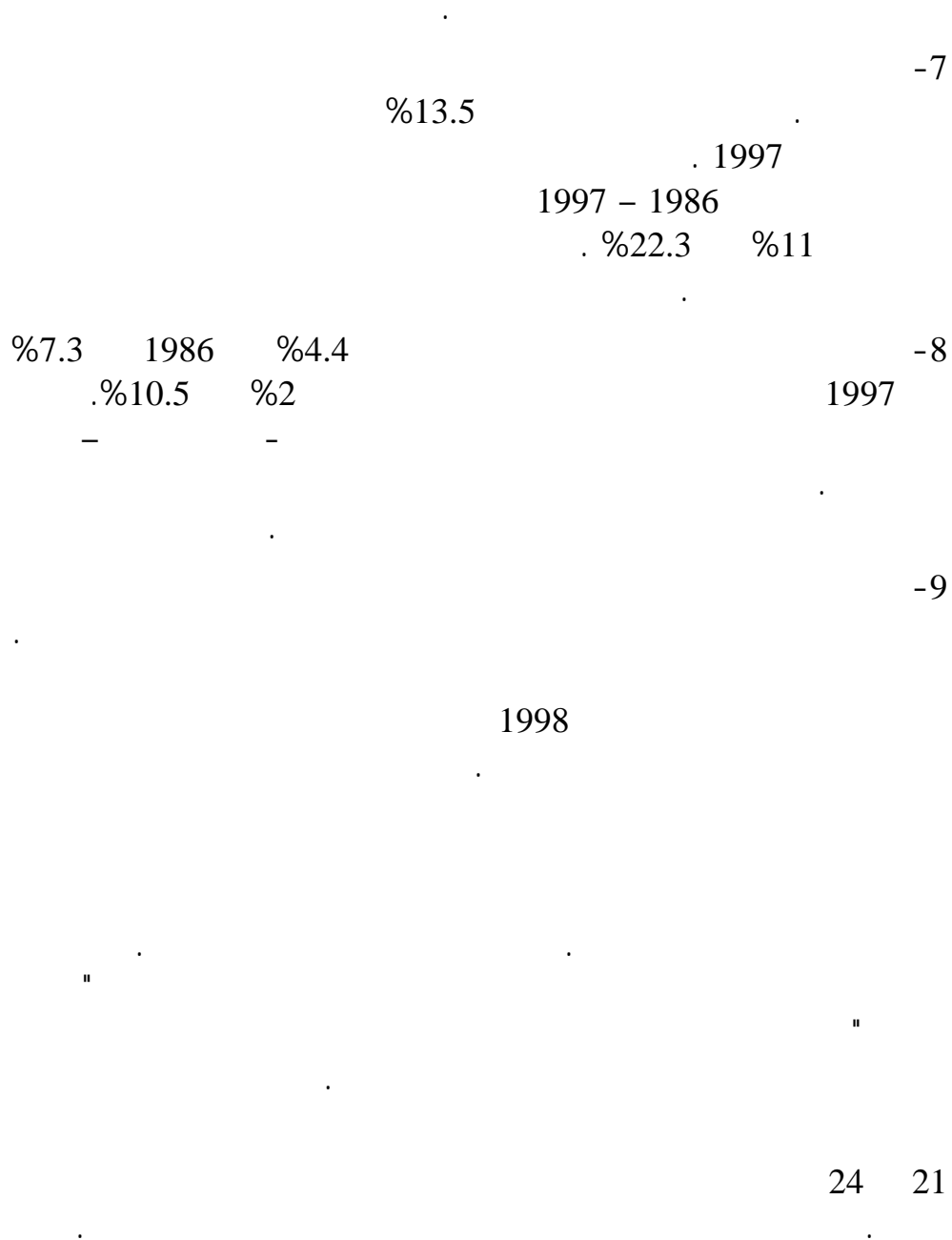
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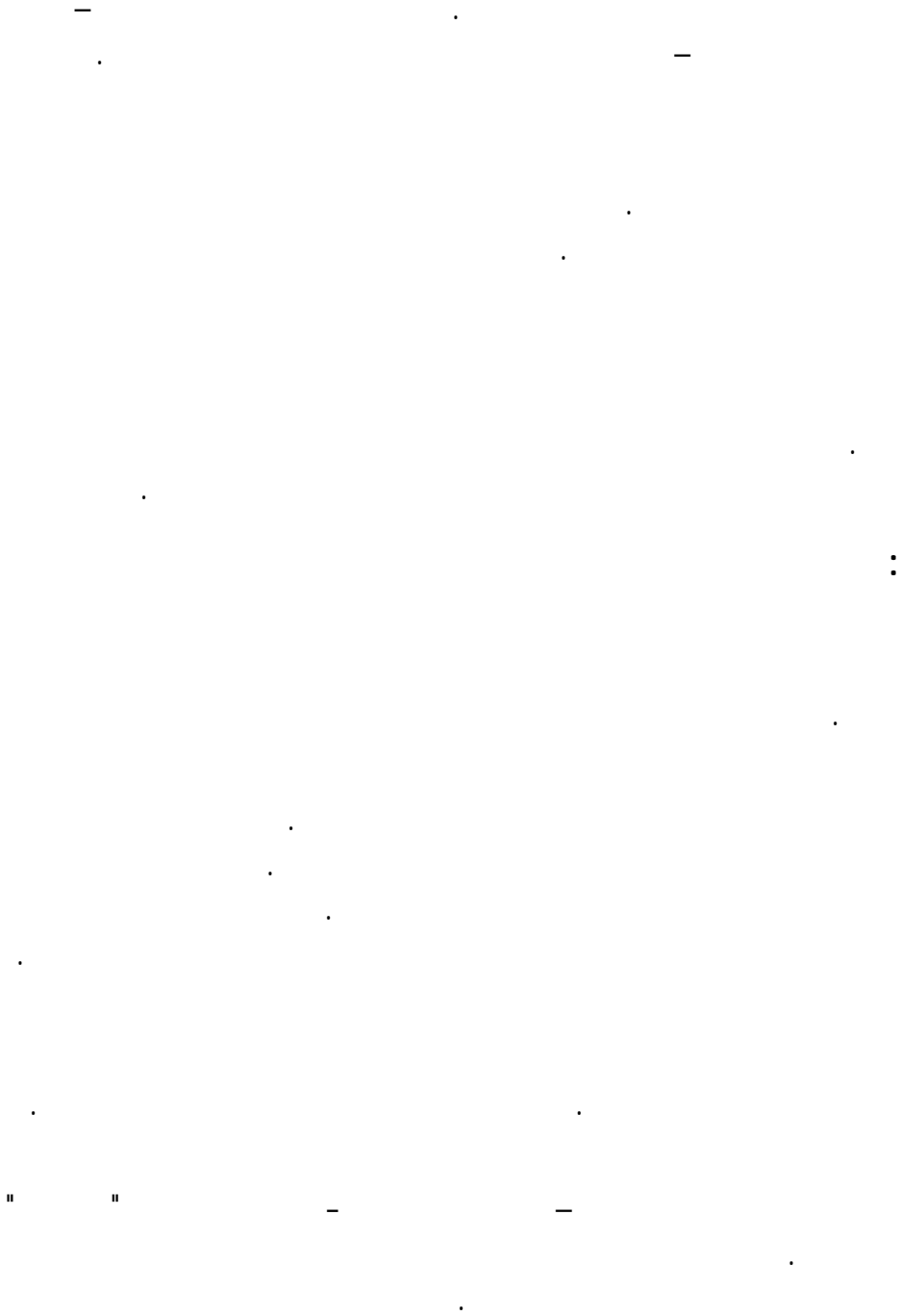












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## abortion

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spontaneous abortion

.induced abortion

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180

stillbirths "

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.(legal abortion

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## age pattern of fertility

fertility

15 )

.( 50

(adolescent subfecundity : )

fecundity :

. ( (1) ) family limitation

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## birth control

the woman rebel

margaret sanger

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contraception

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fertility regulation

family planning

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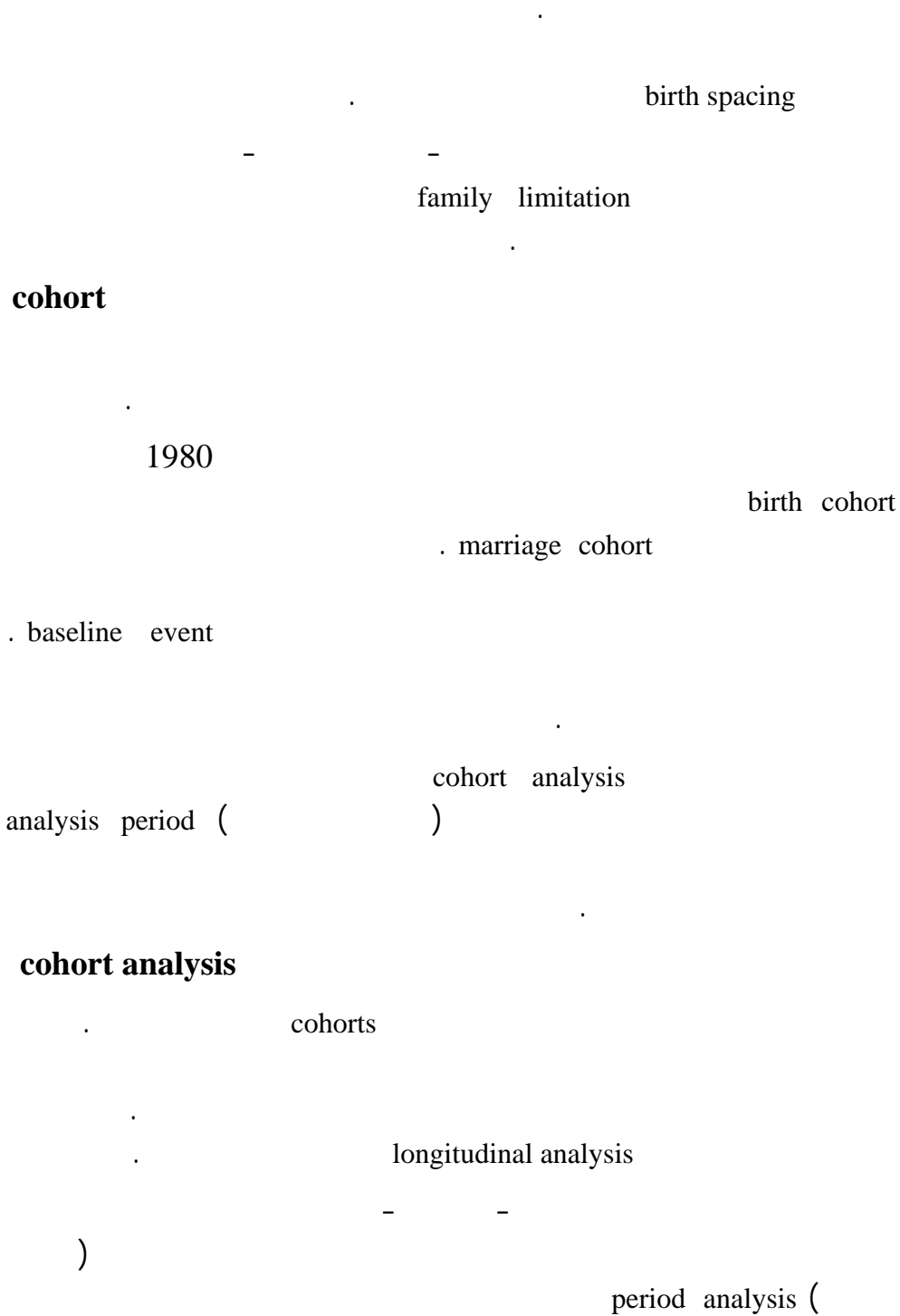
abstinence

anovulation

) breastfeeding

induced abortion

sterilisation





( )

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baseline event

## contraception

contraceptive methods

200

.contraceptive effectiveness

induced abortion

## co – resident group

(1974)

·  
:

co-resident domestic " " group

household

(hajnal, 1982) .  
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**crude birth rate**

( )

mid-

.person- years

year population

crude rate

age-sex structure

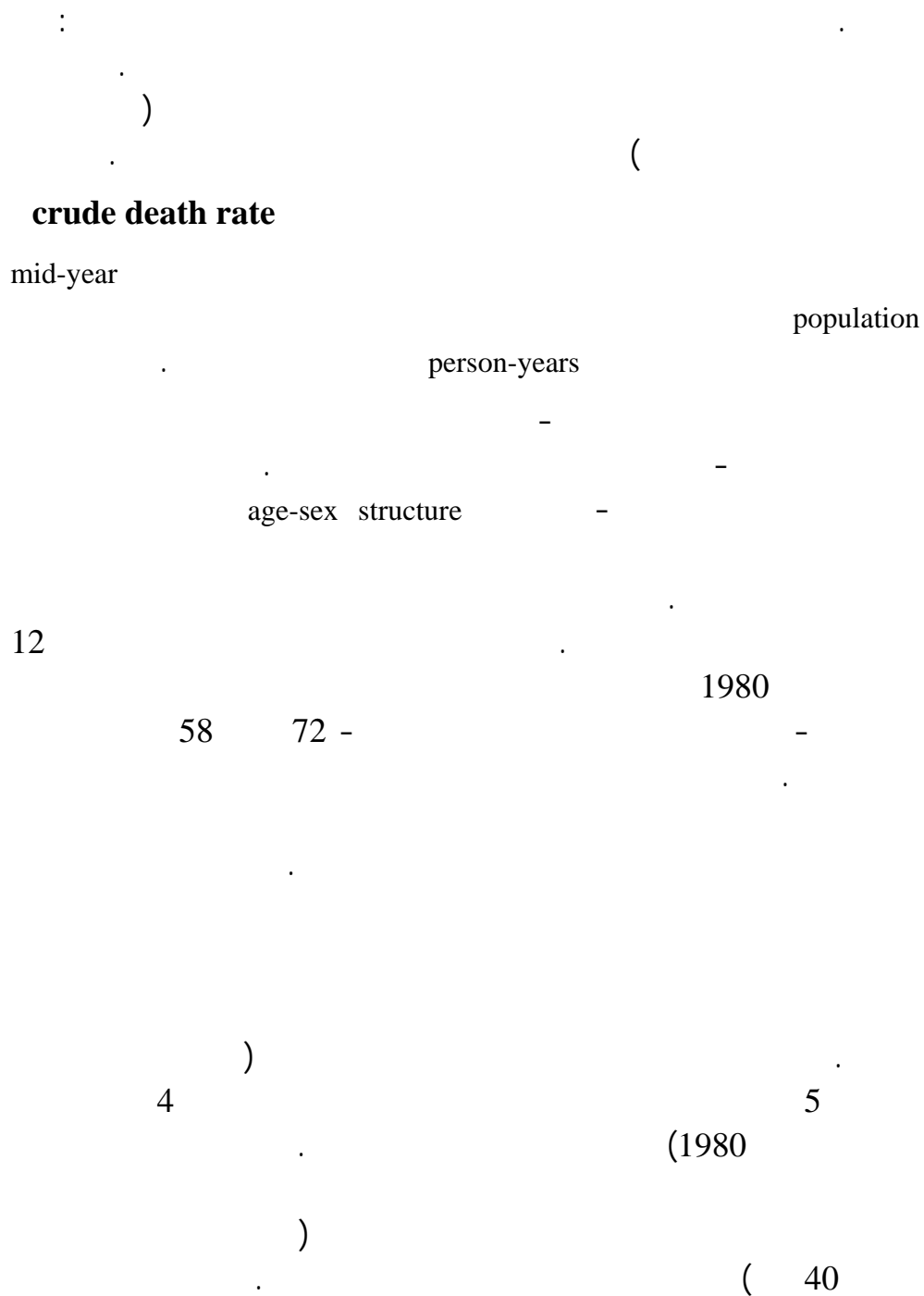
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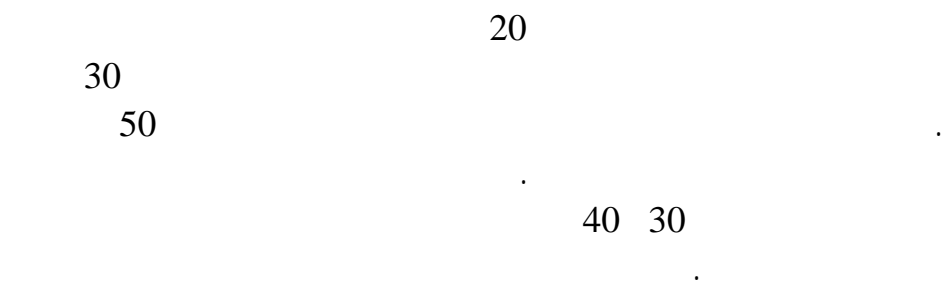
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contraception

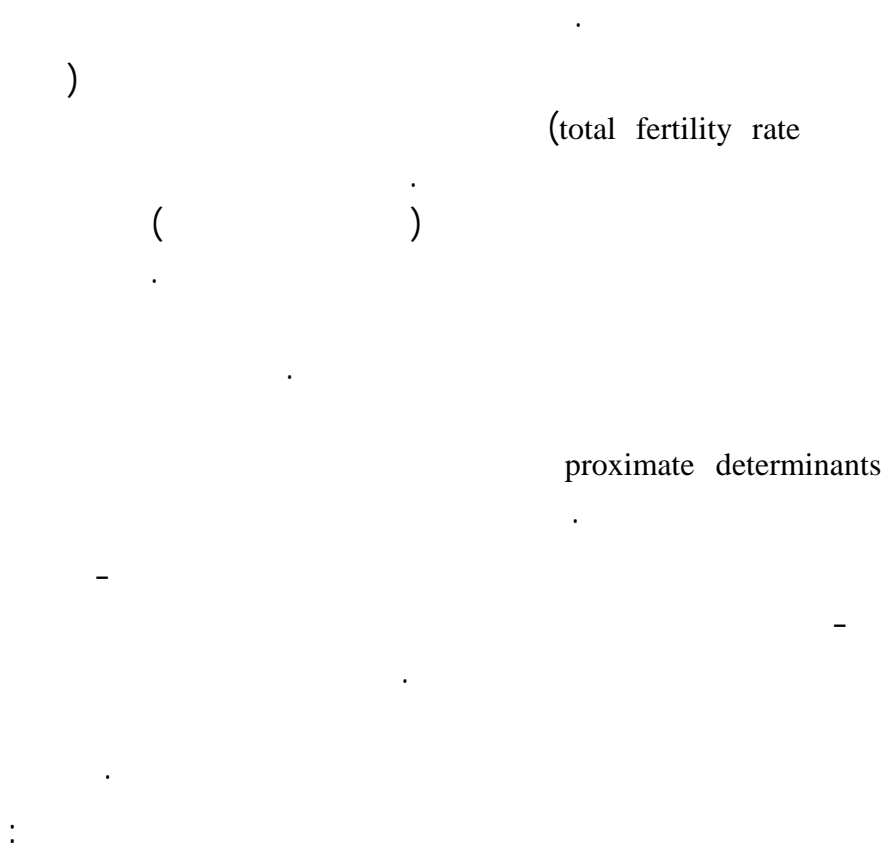
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induced abortion





### differential fertility



## differential mortality

mortality

cohorts

life tables

standardisation

( )

socioeconomic status

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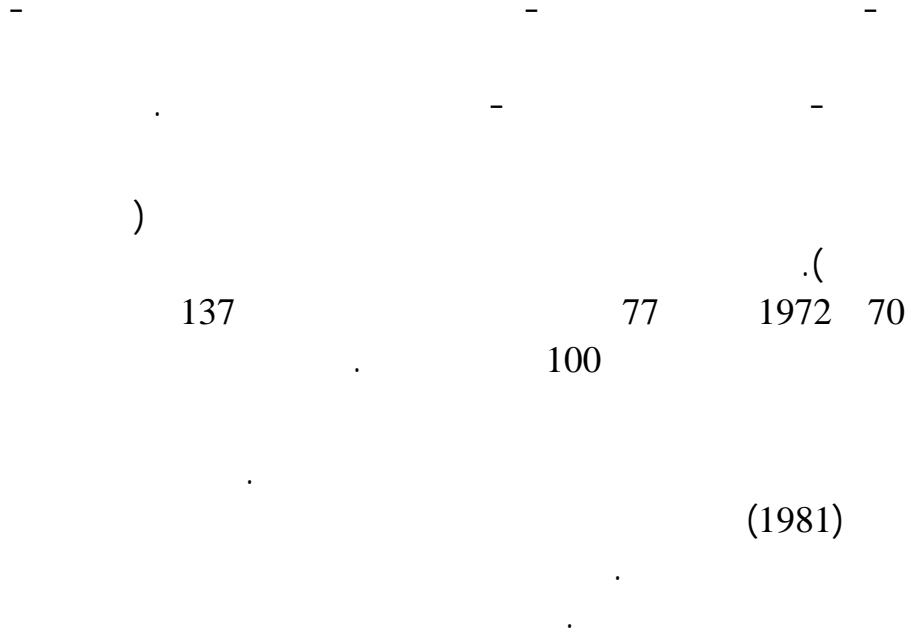
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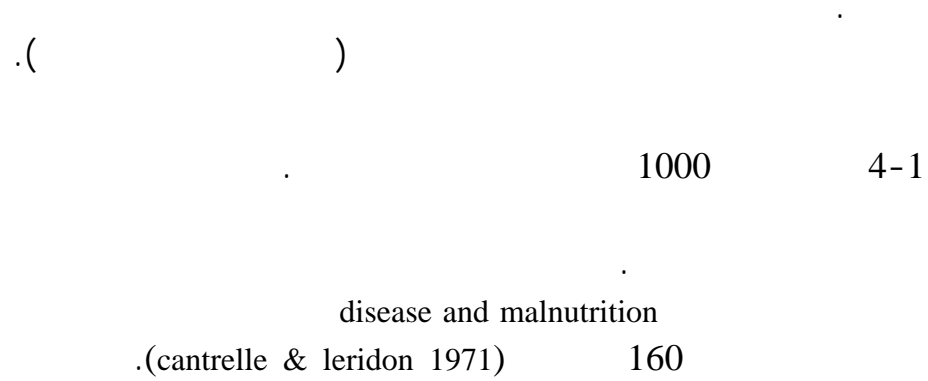
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record linkage



## early childhood mortality



## family cycle

co-resident

group

(1949)

( )

.(berkner 1972)

(1978)

household

%60

( )

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(turner 1969)..

( )

**infant mortality**

( 28)

early

neonatal mortality

28 20

362

. biometric analysis of infant mortality

## **internal migration**

out-migration

in-migration

emigration

immigration



%11

%12

%19

.(long 1982)

%5

%10

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multiregional demography

ravenstein's laws

.(todaro 1976, findley 1982) .

## international migration

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**kap survey** ( " " )

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family planning

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studies in family planning

retrospective surveys

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maternity history

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## life cycle

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## malthusianism

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 ( neo malthusianism

marriage squeeze

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mid-year population

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person-years

natural increase

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parity

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birth

order

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**proximate determinants of fertility**

- (1956)
- :
- marriage ) (1)
- (contraception ) (2)
- ) (3)
- .(induced abortion

bongaarts

decomposition

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.breast- feeding

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## replacement of generations

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net reproduction rate

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## sex ratio

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sex differential mortality

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**value of children**

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time budget