



جامعة القاهرة

التفكير التحليلي القدرة والمهارة والأسلوب

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المكتبة الإلكترونية

أطفال الخليج ذوي الاحتياجات الخاصة

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المراجع

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Guilford

(¹) Analytical thinking.

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.(Hayduck, 1990)⁽¹⁾(

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.(Reber, 1990) (...

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- (1) Convergent thinking.
 - (2) Analytical problem solving
 - (3) Creative problem solving
 - (4) Divergent thinking
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- (1)Cognitive ability
 - (2)Cognitive process
 - (3)Cognitive skill
 - (4)Cognitive style
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(Desimone, 2002)

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(Stand fast logic Ltd, 2001)

(Reber, 1990) (....)

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- (1) Hypothesis Contracture
 - (2) Restructure
 - (3) Synthetical Thinking
 - (4) System thinking
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(OHara & Sternberg, 199)

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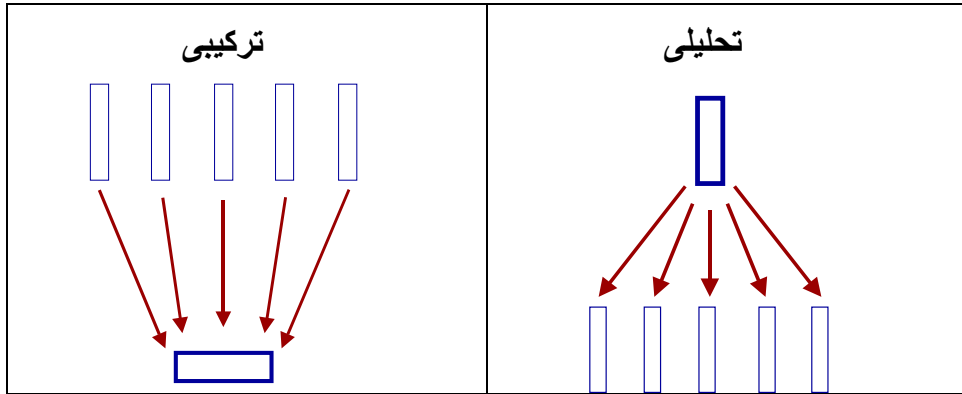
(Bartellet, 2002)

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- (1) Systemic thinking
 - (2) Critical thinking
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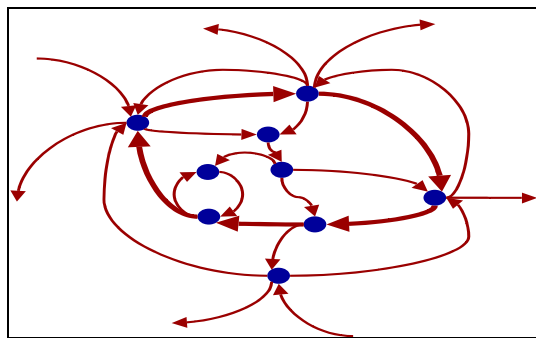
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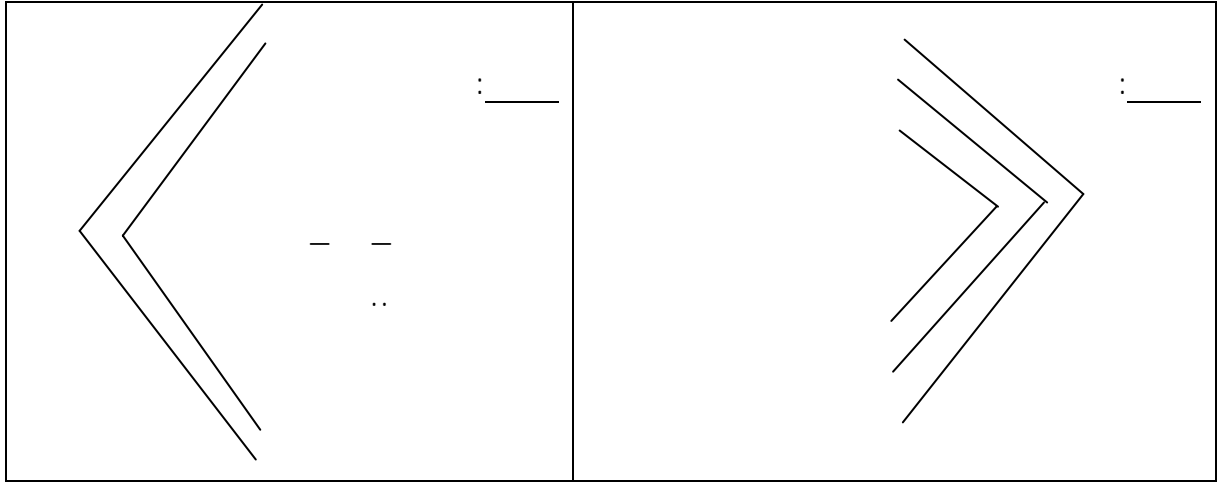
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(Isaksen, Dorval, Trefenrger., 1994)

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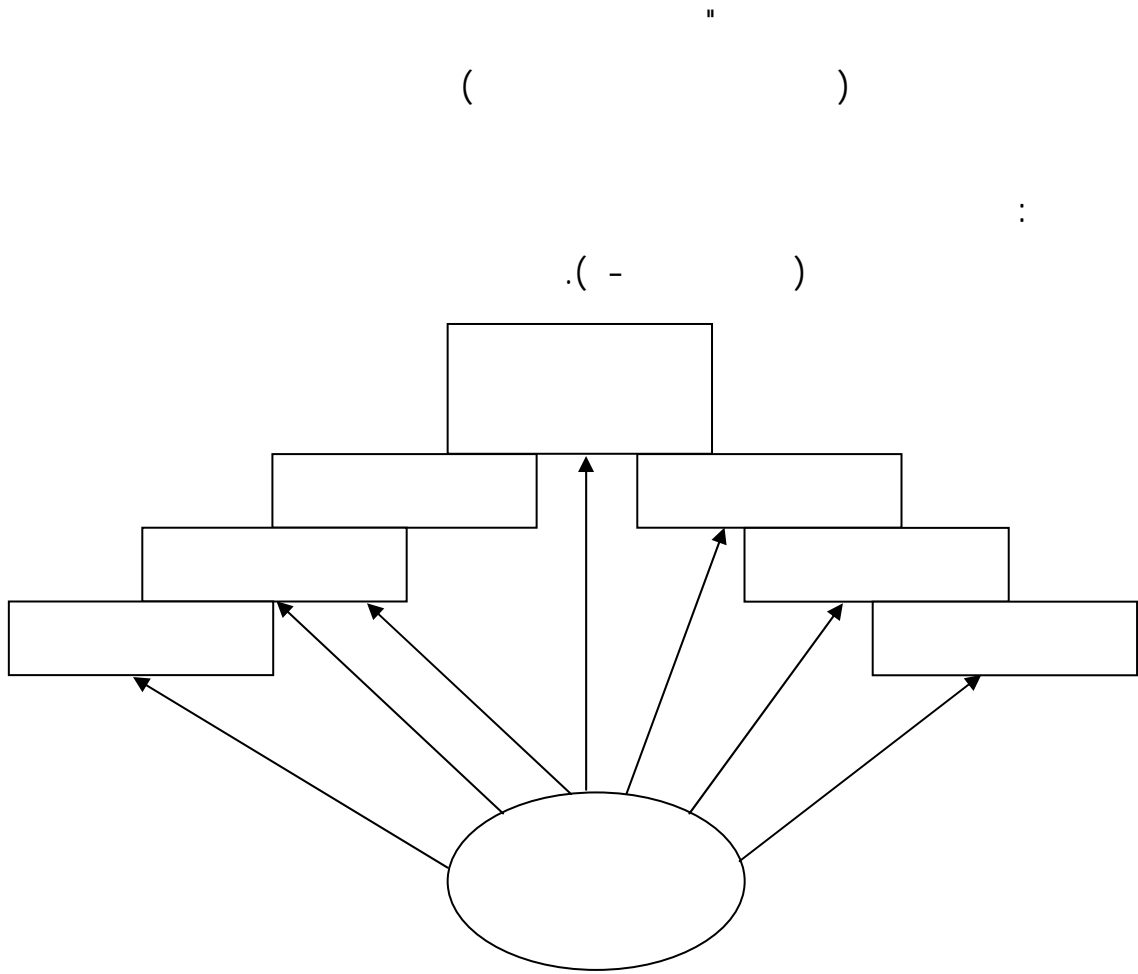
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(Abdel Hamid , 2005)

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" (VanGundy,1987)

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(Isakssen,et al.1994)

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.(Isakssen,et al.1994,VanGundy,1987)

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 - (3) Critical Problem Solving
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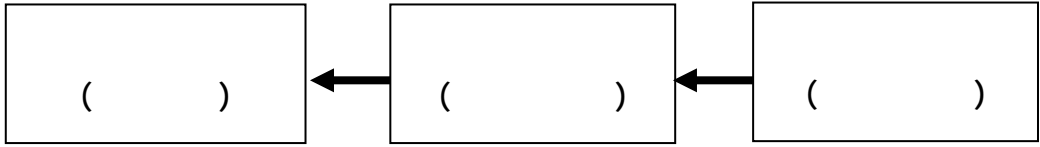
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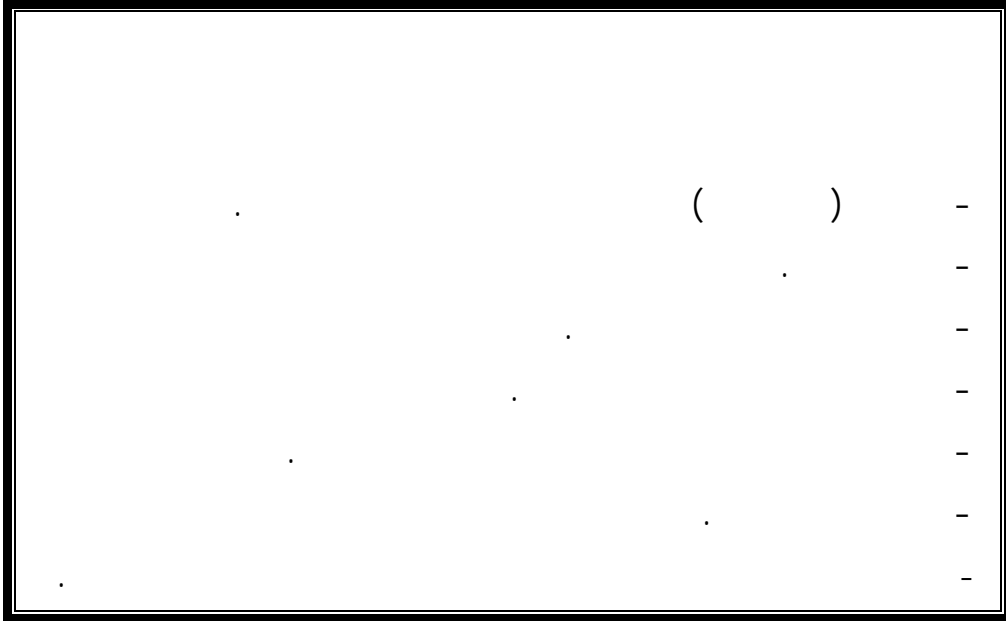
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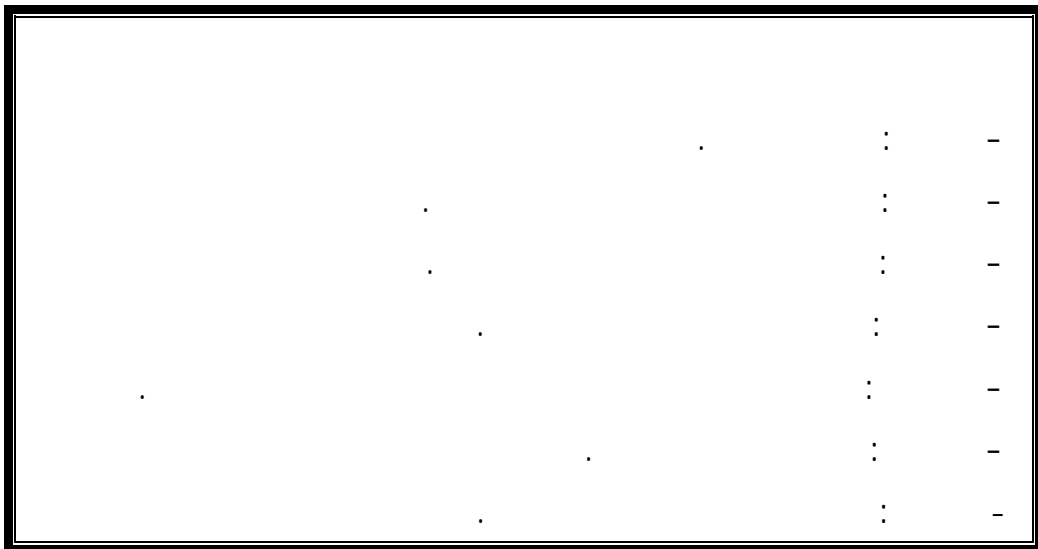
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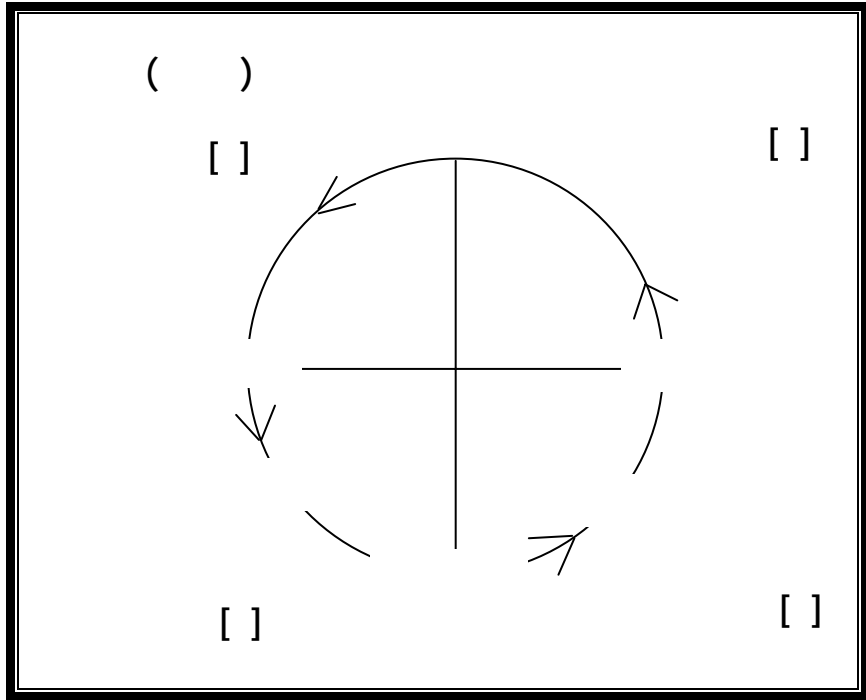
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(Osborn, 1953)



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see: Isaksen, Dorval, Trefernger, 1994))

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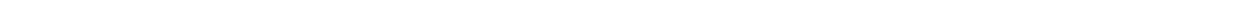
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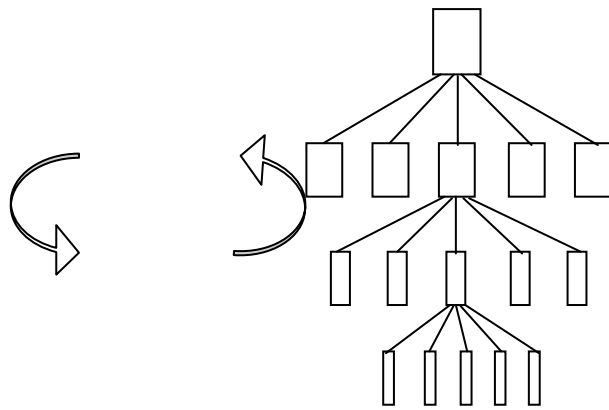
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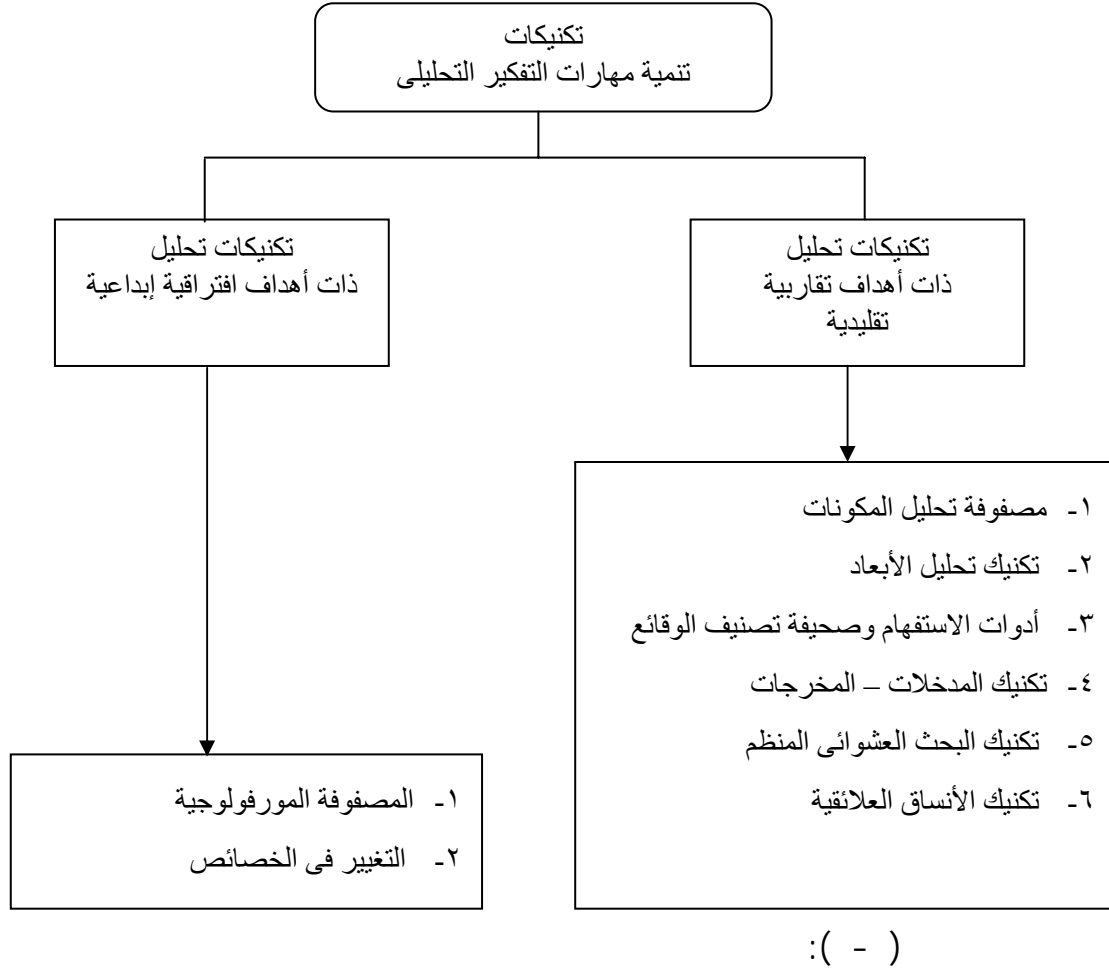
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(1) Decomposable matrices technique
 (2) Dimensional analysis technique

.(Van Gundy, 1988) :

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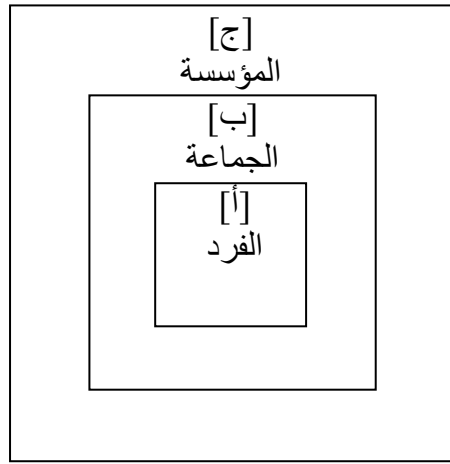
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- Herbert Simon

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- (1) Input-Output technique
- (2) Organized random search technique
- (3) Relevance systems

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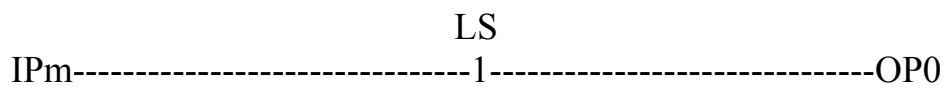
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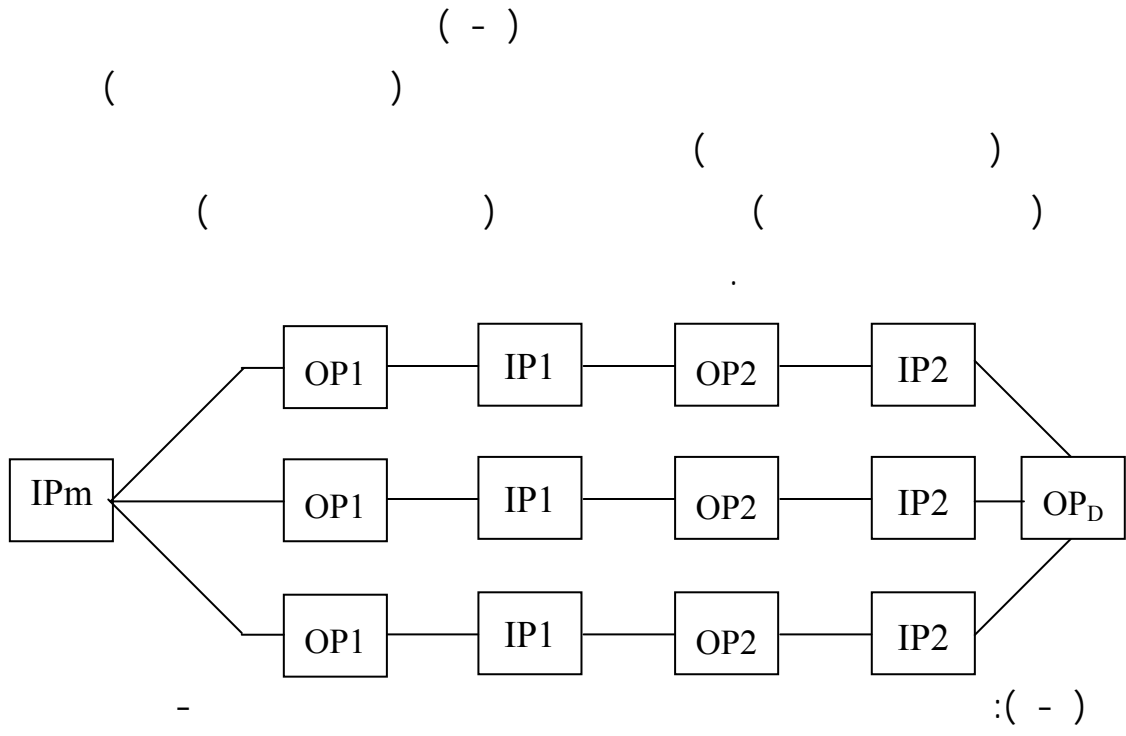
Diagram showing a large rectangular frame containing a table and various symbols.

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Additional symbols and lines are scattered within the frame, including a vertical line on the right side and various dots and dashes.

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(Van Gundy, 1988,)

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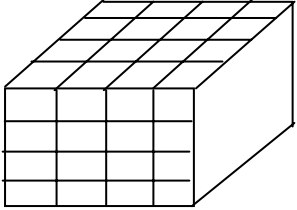
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A large rectangular frame containing a 3D grid of 4x4x3 cells on the left side. The grid is composed of small squares, forming a rectangular prism. The rest of the frame contains scattered symbols including parentheses, colons, and dashes, some of which are aligned with the grid's structure.

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(Kirton, 1976, ()
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(Isaksen ,et al.1994)

(Byrd,1986,Guastello,1998)

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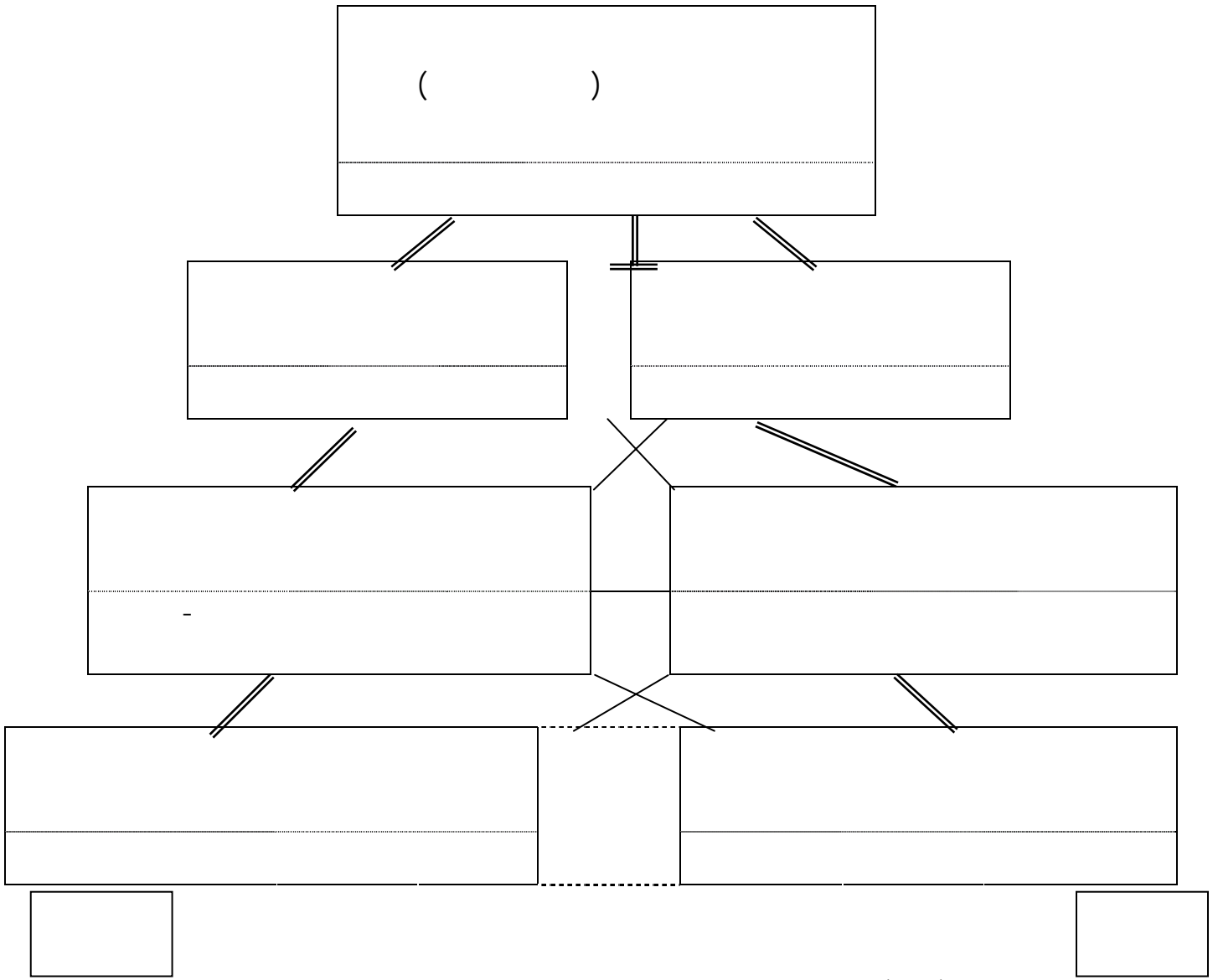
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 - (2) deductive
 - (3) rigorous
 - (4) constrained
 - (5) convergent
 - (6) formal
 - (7) critical
 - (8) synthetic
 - (9) inductive
 - (10) expansive
 - (11) unconstrained
 - (12) divergent
 - (13) informal
 - (14) creative
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(Passolungh et al.1996 Leaw, 2001) (Cheng, 1999, Neto&Volente, 2001)

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(Feldhusen, 1995, Feldhusen &Goh 1996)

(Bonicatti,1983,

(Pizetacznik,1986, Ricciardelli,1992)

Carpenter,1991)

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(McGlynn,1993, Macdonald, 1993)

(Scobee,1983, Miholic, 1991, Winsler, 1993)

(Magadi,1993, Istvan, 2001)

.(Flavell,1979) " "

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(Osborn, 1999a)

(Hacker,1998)

(Jausovec,1994)

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(Patrick, 1992, P. 20)

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(Whitebread, 2000, Masui, De-corte, 1999)

(Masui, De-corte, 1999)

(Alexander, Schwanenflugel, 1996)

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(Chen, Liu,1996)

(Clement, 1996(a), (b)

.(Treffinger, 1995, Miles, 1999)

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(Coletta,et al.1995, Betsinger et al.1994,Kramarski, 1997, Istvan,2001,Kim, 2000)((Jausovec,1994a, Jausovec, 1994b, Jausovec & Bakracevic, 1995, Hang,1999)

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(Cheng, 1999, Neto &Volente, 2001)

(Leaw, (Passolungh et al.1996, Mevarech ,1999, Despete,et al., 2001)

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(De Grave, Boshuizen, Schmidt , 1996)

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(Jausovec,1994 (a), Jausovec,1994 (b), Jausovec & Bakracevic)

(Coletta, et al.1995, Istvan, 2001)

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- Abd El Hamid. (2005). **Systems and creative thinking**, Pathways to Higher Education Project. Center for Advancement of Postgraduate Studies and Research in Engineering Sciences, Faculty of Engineering - Cairo University.
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