## The results of the study will be presented in the following sequence:

- **Part I.** Distribution of second year nursing students according to educational qualification before faculty enrollment. Figure 1
- **Part II.** Components of critical thinking dispositions as reported by second year nursing students. Tables: 1-8
- **Part III.** Components of critical thinking skills as reported by second year nursing students. Tables: 9-21
- **Part IV.** Critical thinking dispositions and critical thinking skills among second year nursing students regarding their educational qualification. Table: 22
- Part VI.

  Correlation between critical thinking dispositions and critical thinking skills among second year nursing students. Figure 2

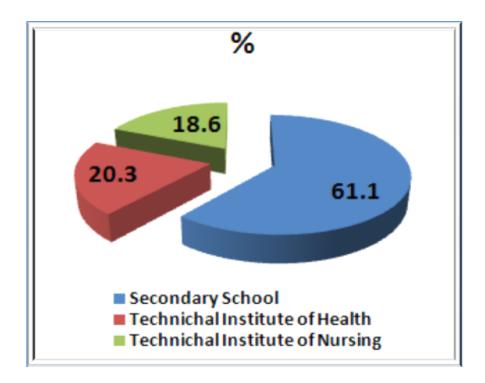


Figure (1):- Distribution of second year nursing students according to educational qualification before faculty enrollment.

This figure shows that more than two thirds (61.1%) of second year nursing students have secondary school qualification while 18.6% of them are with Technical Institute of Nursing.

Table (1):- Mean scores of truth seeking of critical thinking dispositions as reported by study subjects. (n=172)

Items of truth seeking	Max score	Mean ± SD
	20020	
1-It is never easy to decide between competing points of view	6	$4.25 \pm 1.37$
2-If there are four reasons on favor and one against I would go with the four.	6	4.44 ±1 .26
3-Even if the evidence is against me, I will hold from to my	6	$4.14 \pm 1.48$
beliefs.		
4-Every one always argues from their own self interest including	6	$4.83 \pm 1.01$
me.		
5-When have to deal with something really complex, it's panic	6	$4.30 \pm 1.42$
time.		
6-Being impartial is impossible when I'm discussing my own	6	$3.00 \pm 1.52$
opinion.		
7-I believe what want to believe.	6	$4.07 \pm 1.26$
8-I look for facts that support my view not facts that disagree.	6	$4.41 \pm 1.39$
9-Many questions are just too frightening to ask.	6	$4.13 \pm 1.43$
10-I know what I think, so why should I pretend to ponder my	6	$4.14 \pm 1.36$
choices.		
11-It's impossible to know what standards to apply to most	6	$3.51 \pm 1.43$
questions.		
12-To get people to agree with me I would give any reason that	6	$5.24 \pm 1.06$
worked.		
Total mean	72	$4.21 \pm 0.55$

This table portrays that, the mean score of students' truth seeking was  $(4.21\pm .55)$ , and the highest mean score as reported by students was related to the item of "To get people to agree with me I would give any reason that worked."  $(5.24\pm 1.06)$ , while the lowest mean score was related to the item of "Being impartial is impossible when I'm discussing my own opinion"  $(3.00\pm 1.52)$ .

Table (2):- Mean scores of open-mindedness of critical thinking dispositions as reported by study subjects. (n=172)

Items of open-mindedness	Max	Mean±SD
	score	
1-Considering all alternatives is a luxury I can't afford.	6	$3.99 \pm 1.27$
2-It concerns me that I might have biases of which I'm	6	$2.66 \pm 1.47$
not aware.		
3-Men and women are equally logical.	6	$4.51 \pm 1.38$
4-You are not entitled to your opinion if you are	6	$3.89 \pm 1.18$
obviously mistaken.		
5-Open-mindedness has limits when it comes to right	6	$4.79 \pm 1.11$
and wrong.		
6-It's important to me to understand what other people	6	$5.16 \pm 0.99$
think about things.		
7-Foreigners should study our culture instead of us	6	$4.16 \pm 1.52$
always trying to understand theirs.		
8-Frankly, I am trying to be less judgmental.	6	$4.27 \pm 1.22$
9- I shouldn't be forced to defend my own opinions	6	$4.98 \pm 1.23$
10-It makes a lot of sense to study what foreigners	6	$4.55 \pm 1.19$
think.		
11-Being open-minded about different world views so	6	$3.70 \pm 1.32$
less important than people think.		
12-Others are entitled to their opinions, but I don't	6	$2.70 \pm 1.47$
need to hear them.		
Total mean	72	$4.11 \pm 0.51$

This table clearly shows that, the mean score of students' open-mindedness was  $(4.11\pm .51)$ , and the highest mean score as reported by students was related to the item of " I shouldn't be forced to defend my own opinions "  $(4.98\pm 1.23)$ , while the lowest mean score was related to the item of " It concerns me that I might have biases of which I'm not aware"  $(2.66\pm 1.47)$ .

Table (3):- Mean scores of analyticity of critical thinking dispositions as reported by study subjects. (n=172)

Items of analyticity	Max score	Mean±SD
1-It bothers me when people rely on weak argument to defend good ideas.	6	$4.80 \pm 1.36$
2- I pretend to be logical, but I'm not.	6	$2.97 \pm 1.52$
3-I must have grounds for all my beliefs.	6	$5.00 \pm 1.16$
4-People need reasons if they are going to disagree with another's opinion.	6	$4.93 \pm 1.07$
5-Frequently I find myself evaluating other people's arguments	6	4.40 ±1.10
6-You could describe me as logical.	6	$4.44 \pm 1.14$
7-Getting a clear idea about the problem at hand is the first priority	6	$4.96 \pm 1.15$
8-There is no way to know whether one solution is better than another	6	$3.45 \pm 1.38$
9-I'm known for approaching complex problem in an orderly way.	6	$4.35 \pm 1.21$
10 -Life has taught me not to too logical.	6	$3.52 \pm 1.42$
11-Others look to me to decide when the problem is solved.	6	$4.35 \pm 1.19$
Total mean	66	$4.29 \pm 0.49$

This table clearly shows that, the mean score of students' analyticity was  $(4.29\pm .49)$ , and the highest mean score as reported by students was related to the item of "I must have grounds for all my beliefs"  $(5.00\pm 1.16)$ , while the lowest mean score was related to the item of "I pretend to be logical, but I'm not"  $(2.97\pm 1.52)$ .

Table (4):- Mean of systematicity of critical thinking dispositions as reported by study subjects. (n=172)

Items of systematicity	Max	Mean±SD
	score	
1-My trouble is that I'm easily distracted.	6	$4.22 \pm 1.50$
2-I always focus the question before I attempt to answer it	6	$4.75 \pm 1.31$
3-I can talk about my problem for hours and hours without	6	$3.23 \pm 1.51$
solving anything		
4-It's easy for me to organize my thoughts.	6	$4.54 \pm 1.14$
5-It's important to me to keep careful record of my	6	$4.24 \pm 1.40$
personal finances.		
6-People say I rush into decisions too quickly.	6	$4.04 \pm 1.51$
7-People think I procrastinate about making decisions.	6	$3.81 \pm 1.41$
8-My opinion about controversial topics depends a lot on	6	$3.63 \pm 1.38$
who talk to last.		
9-If I have to work on a problem; I can put other things out	6	$4.01 \pm 1.35$
of my mind		
10-I'm good at developing orderly plan to address complex	6	$4.36 \pm 1.11$
problems.		
Total mean	60	$4.08 \pm 0.68$

This table illustrates that, the mean score of students' systematicity was  $(4.08\pm .68)$ , and the highest mean score as reported by students was related to the item of " I always focus the question before I attempt to answer it "  $(4.75\pm 1.31)$ , while the lowest mean score was related to the item of " I can talk about my problem for hours and hours without solving anything"  $(3.23\pm 1.51)$ .

Table (5):- Mean scores of self-confidence of critical thinking dispositions reported by study subjects. (n=172)

Items of self-confidence	Max score	Mean±SD
	SCOLC	
1-I am proud that I can think with great precision.	6	$4.69 \pm 1.23$
2-Tests that require thinking, not just memorization,	6	$4.69 \pm 1.21$
are better for me.		
3-Other admires my intellectual curiosity and	6	$4.48 \pm 1.13$
inquisitiveness.		
4-My peers call on me to make judgments because I	6	$4.44 \pm 1.06$
decide things fairly		
5-I pride my self on coming up with creative	6	$4.63 \pm 1.20$
alternatives.		
6-Others look to establish reasonable standards to	6	$4.29 \pm 1.23$
apply to decisions.		
7-Being inquisitive is one of my strong points.	6	$4.05 \pm 4.05$
8-I take the pride in my ability to understand the	6	$4.69 \pm 1.16$
opinions of others.		
9-Others look to me to keep working on a problem	6	$4.61 \pm 1.17$
when the going gets tough.		
Total mean	54	4.51±0.66

According to this table the mean score of students' self-confidence was  $(4.51\pm~0.66)$ , and the highest mean score as reported by students was related to the items of "I am proud that I can think with great precision"  $(4.69\pm1.23)$ , "Tests that require thinking, not just memorization, are better for me" $(4.69\pm1.21)$  and "I take the pride in my ability to understand the opinions of others"  $(4.69\pm1.16)$  while the lowest mean score was related to the item of "Being inquisitive is one of my strong points"  $(4.05\pm4.05)$ .

Table (6):- Mean scores of inquisitiveness of critical thinking dispositions as reported by study subjects. (n=172)

Items of inquisitiveness	Max	Mean±SD
	score	
1- Studying new things all my life would be wonderful.	6	$5.35 \pm 0.94$
2- Most college courses are uninteresting and not worth taking.	6	$3.80 \pm 1.46$
3- When faced with a big decision; I first seek all the	6	$5.04 \pm 1.08$
information I can.		
4- Required subjects in colleges waste time.	6	$3.61 \pm 1.36$
5- It's just not that important to keep trying to solve difficult	6	$3.34 \pm 1.55$
problems.		
6- I look forward to learning challenging things.	6	$4.57 \pm 1.30$
7- Complex problems are fun to try to figure out.	6	$4.59 \pm 1.17$
8- I really enjoy trying to figure out how things work.	6	$4.60 \pm 1.15$
9-No matter what the topic; I am eager to know more about it.	6	$4.29 \pm 1.22$
10-Learn everything you can never know when it could come in	6	$4.68 \pm 1.13$
handy		
Total mean	60	$4.39 \pm 0.64$

This table illustrates that, the mean score of students' Inquisitiveness was  $(4.39\pm0.64)$ , and the highest mean score as reported by students was related to the item of "Studying new things all my life would be wonderful "  $(5.35\pm0.94)$ , while the lowest mean score was related to the item of "It's just not that important to keep trying to solve difficult problems"  $(3.34\pm1.55)$ .

Table (7):- Mean scores of cognitive maturity of critical thinking dispositions as reported by study subjects. (n=172)

Items of cognitive maturity	Max	Mean±SD
	score	
1-The best discussion of the idea is how to feel at the time.	6	$5.08 \pm 0.96$
2-truth always relied on your point of view.	6	$4.13 \pm 1.29$
3-can never know the truth about most things.	6	$4.49 \pm 1.23$
4-Cost advice would be paid entirely by.	6	$4.76 \pm 1.14$
5-The fact that you are open-minded means that you do not know	6	$3.28 \pm 1.67$
what is real and that Meagher.		
6-Reading anything conditions avoided as much as possible.	6	$2.87 \pm 1.64$
7-The best way to solve the problem is a question for someone	6	$3.36 \pm 1.38$
else to answer		
8-That similarities useful, as if by Windjammer in Plain.	6	$4.21 \pm 1.18$
9-Things are as they seem.	6	$3.89 \pm 1.37$
10-Persons powerful determine the right answer	6	$4.16 \pm 1.44$
Total mean	60	$4.02 \pm 0.69$

According to this table the mean score of students' cognitive maturity was  $(4.02\pm0.69)$ , and the highest mean score as reported by students was related to the item of " The best discussion of the idea is how to feel at the time "  $(5.08\pm0.96)$ , while the lowest mean score was related to the item of " Reading anything conditions avoided as much as possible"  $(2.87\pm1.64)$ .

Table (8):- Components of critical thinking dispositions as reported by second year nursing students. (n=172)

Items	Max score	Mean±SD
1-Truth seeking	72	$4.21 \pm 0.55$
2-Open-mindedness	72	$4.11 \pm 0.51$
3-Analyticity	66	$4.29 \pm 0.49$
4- Systematicity.	60	4.08 ±0.68
5-Cognitive Maturity	60	4.02±0.69
6-Inquisitiveness	60	4.39 ±0.64
7-Self-confidence	54	4.51±0.66
Total mean	444	312.86 ± 29.73*

<sup>\*</sup> Positive disposition toward critical thinking

According to this table the nursing students' critical thinking dispositions were positive with mean score (312.86 $\pm$  29.73), and the highest mean score as reported by students was related to self-confidence (4.51 $\pm$  0.66), while the lowest mean score was related to cognitive maturity (4.02 $\pm$  0.69).

Table (9):- Mean scores of tendency to evaluate external subjects of critical thinking skills as reported by study subjects. (n=172)

Items of tendency to evaluate external subjects	Max	Mean±SD
	score	
1- My judgment on things is constant in a state of anger or	5	$3.51 \pm 1.19$
satisfaction.		
2 - My judgment on matters depends on my mood.	5	$3.27 \pm 1.16$
3- My judgment is positive on matters that I like.	5	$3.82 \pm 1.01$
4- I judge matters through the circumstances that surrounds them.	5	$3.83 \pm 0.98$
5- Others describe me with my right judgment on matters.	5	$3.57 \pm 0.97$
6- I get away from saying my opinion on most matters.	5	$3.11 \pm 0.99$
Total mean	30	$3.52 \pm 0.59$

This table illustrates that, the mean score of students' tendency to evaluate external subjects was  $(3.52\pm0.59)$ , and the highest mean score as reported by students was related to the item of " I judge matters through the circumstances that surrounds them "  $(3.83\pm0.98)$ , while the lowest mean score was related to the item of " I get away from saying my opinion on most matters"  $(3.11\pm0.99)$ .

Table (10):- Mean scores of correct use of language in listening, writing and reading of critical thinking skills as reported by study subjects. (n=172)

Items of correct use of language in listening, writing and reading	Max score	Mean±SD
1- I enjoy when others speak with me in correct language	5	$4.37 \pm 0.81$
2- I enjoy when I use the dictionary to find out the meaning of	5	$3.88 \pm 0.99$
words.		
3- I'm keen on correcting the language mistakes of others	5	$3.67 \pm 1.05$
4- I stick to the proper pronunciation of the language when I	5	$3.70 \pm 0.98$
speak.		
5- I listen to interest in the accuracy of each conversation with	5	$4.02 \pm 0.95$
me.		
6- I'm interested in the meaning of words and phrases spoken	5	$3.90 \pm 0.99$
by others.		
7- I'm keen on arrangement of the words and sentences when	5	$4.00 \pm 0.87$
reading.		
8-I give every word the right pronunciation when I speak.	5	$3.75 \pm 0.92$
9- I'm keen on not to dwell on the usage of words when	5	$3.75 \pm 0.98$
speaking.		
10- I need the help of others in understanding words and	5	$3.58 \pm 1.04$
sentences.		
Total mean	50	$3.86 \pm 0.57$

This table clearly shows that, the mean score of students' correct use of language in listening, writing and reading was  $(3.86\pm0.57)$ , and the highest mean score as reported by students was related to the item of " I enjoy when others speak with me in correct language "  $(4.37\pm0.81)$ , while the lowest mean score was related to the item of " I need the help of others in understanding words and sentences"  $(3.58\pm1.04)$ .

Table (11):- Mean scores of tendency to discern matters of critical thinking skills as reported by study subjects. (n=172)

Items of tendency to discern matters	Max	Mean±SD
	score	
1-I'm interested in searching for right and wrong in the matters	5	4.38 ±0 .74
that I am encountering.		
2- Rudder plays a key role for all matters.	5	$3.54 \pm 1.05$
3 -I check matters carefully.	5	$4.29 \pm 0.79$
4-I raise the attention of others to the important things they left	5	$4.03 \pm 0.82$
behind.		
5- Checking matters carefully is a waste of time.	5	$2.78 \pm 1.24$
6- I'm interested in comparing between the things.	5	$3.84 \pm 0.89$
7- I'm interested in comparing between the opposing views.	5	$3.86 \pm 0.98$
Total mean	35	$3.82 \pm 0.51$

According to this table the mean score of students' tendency to discern matters was  $(3.82\pm0.51)$ , and the highest mean score as reported by students was related to the item of " I'm interested in searching for right and wrong in the matters that I am encountering " $(4.38\pm0.74)$ , while the lowest mean score was related to the item of " Checking matters carefully is a waste of time " $(2.78\pm1.24)$ .

Table (12):- Mean scores of tendency to discuss matter objectively of critical thinking skills as reported by study subjects. (n=172)

Items of tendency to discuss matter objectively	Max	Mean±SD
	score	
1- I make my views through my discussion with others.	5	$4.24 \pm 0.84$
2- I judge something through my discussion with others about it.	5	$3.91 \pm 0.88$
3- My views receive acceptance from others.	5	$3.76 \pm 0.89$
4- I insist on my view despite the refusal of others.	5	$3.54 \pm 1.10$
5- I differ with others in the views.	5	$3.77 \pm 0.94$
6- I'm keen on criticizing others, no matter what difficulties	5	$3.50 \pm 1.07$
7- I feel angry when others criticize me.	5	$3.20 \pm 1.16$
8- I avoid criticizing others	5	$3.28 \pm 1.13$
9- I feel happy when I listen to in-depth conversations	5	$4.01 \pm 1.02$
Total mean	45	$3.69 \pm 0.50$

This table portray that, the mean score of students' tendency to discuss matter objectively was  $(3.69\pm0.50)$ , and the highest mean score as reported by students was related to the item of " I make my views through my discussion with others "  $(4.24\pm0.84)$ , while the lowest mean score was related to the item of " I feel angry when others criticize me"  $(3.20\pm1.16)$ .

Table (13):- Mean scores of caring about judgment of certain phenomena of critical thinking skills as reported by study subjects. (n=172)

Items of caring about judgment of certain	Max	Mean±SD
phenomena	score	
1- I'm keen on judging the phenomena existing in the society.	5	$4.18 \pm 0.94$
2- my expectations are true	5	$3.69 \pm 0.84$
when observing any phenomenon.		
3- my expectations are wrong when judging the phenomena	5	$3.18 \pm 1.05$
4- I'm interested in identifying the real causes of the phenomena.	5	$3.92 \pm 0.91$
5- I find it difficult to recognize the phenomenon and its		$3.48 \pm 1.02$
consequences.		
6- I'm interested in the causes and consequences of phenomenon.	5	$3.88 \pm 1.01$
Total mean		$3.72 \pm 0.53$

This table clearly shows that, the mean score of students' caring about judgment of certain phenomena was  $(3.72\pm0.53)$ , and the highest mean score as reported by students was related to the item of " I'm keen on judging the phenomena existing in the society "  $(4.18\pm0.94)$ , while the lowest mean score was related to the item of " my expectations are wrong when judging the phenomena"  $(3.18\pm1.05)$ .

Table (14):- Mean scores of tendency to reach conclusion correctly of critical thinking skills as reported by study subjects. (n=172)

Items of tendency to reach conclusion correctly		Mean $\pm$ SD $4.42 \pm 0.71$ $4.08 \pm 0.92$	
	score		
1- I'm interested in the real sources to get true results.	5	$4.42 \pm 0.71$	
2 - I'm interested in following-up the topics for the end to reach a	5	$4.08 \pm 0.92$	
conclusion.			
3 - I find it difficult to follow up the topics to an end.	5	$3.43 \pm 0.99$	
Total mean		$3.97 \pm 0.64$	

This table clarifies that, the mean score of students' tendency to reach conclusion correctly was  $(3.97\pm0.64)$ , and the highest mean score as reported by students was related to the item of "I'm interested in the real sources to get true results "  $(4.42\pm0.71)$ , while the lowest mean score was related to the item of "I find it difficult to follow up the topics to an end "  $(3.43\pm0.99)$ .

Table (15):- Mean scores caring about observation of matters and subjects of critical thinking skills as reported by study subjects. (n=172)

Items of caring about observation of matters	Max	Mean±SD
and subjects	score	
1- I observe the topics accurately.	5	$3.93 \pm 0.95$
2- I follow up the topics rapidly and transiently.	5	$3.65 \pm 1.08$
3- I track the results of matters that have my interest.	5	$4.02 \pm 0.73$
4- Others describe my views as far from reality.	5	$3.09 \pm 1.11$
5- I avoid making judgments on others.	5	$3.40 \pm 0.97$
6 -I'm interested in issuing judgments on others and their	5	$3.56 \pm 1.03$
proposals		
7- I'm interested in judging the actions of others.	5	$3.49 \pm 0.99$
8 -I get away from saying my opinion on many matters	5	$2.26 \pm 1.19$
around me.		
9- I judge the matters through my knowledge about them.	5	$3.88 \pm 0.99$
Total mean	45	$3.59 \pm 0.51$

According to this table the mean score of students' caring about observation of matters and subjects was  $(3.59\pm0.51)$ , and the highest mean score as reported by students was related to the item of " I track the results of matters that have my interest " $(4.02\pm0.73)$ , while the lowest mean score was related to the item of " I get away from saying my opinion on many matters around me "  $(2.26\pm1.19)$ .

Table (16):- Mean scores of openness and flexibility in dealing with matters of critical thinking skills as reported by study subjects. (n=172)

Items of openness and flexibility in dealing with	Max	Mean±SD
matters	score	
1- I'm keen on renewing the way of my dealings with others.	5	$4.27 \pm 0.86$
2- I'm keen on doing the familiar I works.	5	$3.91 \pm 0.96$
3-I listen to all opinions even those contradicting me in opinion.	5	$4.04 \pm 0.99$
4- I listen to different views supporting and opposing.	5	$4.00 \pm 0.99$
5- I refuse everyone contradicting me in my opinion.	5	$2.81 \pm 1.25$
6-I behave appropriately, whatever the circumstances are difficult.		$3.79 \pm 0.95$
7- I respect the old and new traditions.		$3.95 \pm 1.03$
Total mean		$3.82 \pm 0.54$

This table clarifies that, the mean score of students' openness and flexibility in dealing with matters was  $(3.82\pm~0.54)$ , and the highest mean score as reported by students was related to the item of "I'm keen on renewing the way of my dealings with others "  $(4.27\pm~0.86)$ , while the lowest mean score was related to the item of "I refuse everyone contradicting me in my opinion"  $(2.81\pm1.25)$ .

Table (17):- Mean scores of identifying relations from subjects of critical thinking skills as reported by study subjects. (n=172)

Items of identifying relations from subjects	Max score	Mean±SD
1- I am seeking to link the new and old topics.	5	$4.34 \pm 0.81$
2- I am seeking to recognize relationships between objects.	5	$4.01 \pm 0.88$
3- I am only interested in new things without linking them to	5	$2.69 \pm 1.19$
old things.		
Total mean		$3.68 \pm 0.64$

This table clearly shows that the mean score of students' identification of relations from subjects was  $(3.68\pm0.64)$ , and the highest mean score as reported by students was related to the item of "I am seeking to link the new and old topics " $(4.34\pm0.81)$ , while the lowest mean score was related to the item of "I am only interested in new things without linking them to old things " $(2.69\pm1.19)$ .

Table (18):- Mean scores of tendency to avoid rumors in judgments of critical thinking skills as reported by study subjects. (n=172)

Items of tendency to avoid rumors in judgments	Max	Mean±SD
	score	
1-I believe the rumors, calling on others.	5	$2.68 \pm 1.41$
2- I exclude rumors in judging people.	5	$3.66 \pm 1.23$
3- I'm keen on referring to records to make sure that information		$3.91 \pm 1.02$
is correct.		
4-I otroy much in judging things.		$3.94 \pm 1.04$
5- I am neutral in judging things.		$3.64 \pm 0.92$
Total mean	25	$3.57 \pm 0.60$

According to this table the mean score of students' tendency to avoid rumors in judgments was  $(3.57\pm0.60)$ , and the highest mean score as reported by students was related to the item of "I otroy much in judging things " $(3.94\pm1.04)$ , while the lowest mean score was related to the item of "I believe the rumors, calling on others"  $(2.68\pm1.41)$ .

Table (19):- Mean scores of adaptation to new situations of critical thinking skills as reported by study subjects.(n=172)

Items of adaptation to new situations	ions Max	
	score	
1- I have difficulty in dealing with new situations.	5	$3.51 \pm 1.08$
2- I'm keen on learning new information.	5	$4.43 \pm 0.75$
3- Before beginning any work, I listen to the owners of	5	$4.16 \pm 0.85$
experience.		
4- I accept new information without discussion.	5	$3.26 \pm 1.19$
Total mean	20	$3.84 \pm 0.64$

This table portray that, the mean score of students' adaptation to new situations was  $(3.84\pm0.64)$ , and the highest mean score as reported by students was related to the item of "I'm keen on learning new information"  $(4.43\pm0.75)$ , while the lowest mean score was related to the item of "I accept new information without discussion"  $(3.26\pm1.19)$ .

Table (20):- Mean scores of providing innovative solutions of critical thinking skills as reported by study subjects. (n=172)

Items of Providing innovative solutions	Max	Mean±SD
	score	
1-I prefer solutions that accessed by others before me.	5	$3.54 \pm 1.13$
2- I always tend to reach ambiguous results.	5	$3.47 \pm 1.14$
3- I reach solutions that are unfamiliar to others.	5	$3.22 \pm 1.17$
4- When I have a problem I look for many solutions.	5	$4.08 \pm 0.93$
5- I listen to more than a suggestion to reach what is new.	5	$4.12 \pm 0.90$
6- Others describe me that my suggestions are unrealistic.	5	$3.75 \pm 0.93$
7- My suggestions receive a refusal from others.	5	$2.91 \pm 1.14$
Total mean	35	$3.58 \pm 0.61$

This table clearly shows that the mean score of students' providing innovative solutions was  $(3.58\pm~0.61)$ , and the highest mean score as reported by students was related to the item of " I listen to more than a suggestion to reach what is new " $(4.12\pm~0.90)$ , while the lowest mean score was related to the item of " My suggestions receive a refusal from others " $(2.91\pm~1.14)$ .

Table (21):- Components of critical thinking skills as reported by second year nursing students. (n=172)

Items	Max	Mean±SD
	score	
1-Correct use of language in listening, writing and	50	$3.86 \pm 0.57$
reading.		
2-Caring about observation of matters and subjects.	45	$3.59 \pm 0.51$
3-Tendency to discuss matter objectively.	45	$3.69 \pm 0.50$
4-Tendency to discern matters.	35	$3.82 \pm 0.51$
5-Openness and flexibility in dealing with matters.	35	$3.82 \pm 0.54$
6-Providing innovative solutions.	35	$3.58 \pm 0.61$
7-Caring about judgment of certain phenomena.	30	$3.72 \pm 0.53$
8-Tendency to evaluate external subjects.	30	$3.52 \pm 0.59$
9-Tendency to avoid rumors in judgments.	25	$3.57 \pm 0.60$
10-Adaptation to new situations.	20	$3.84 \pm 0.64$
11-Tendency to reach conclusion correctly.	15	$3.97 \pm 0.64$
12-Identify relations from subjects.	15	$3.68 \pm 0.64$
Total mean	380	282.61 ± 29.69*

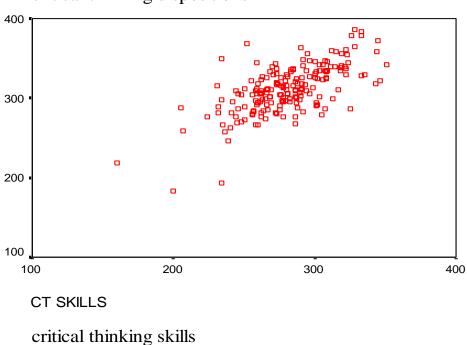
<sup>\*</sup> High level of critical thinking skills

According to this table the nursing students' critical thinking skills were high with mean score ( $282.61\pm29.69$ ), and the highest mean score as reported by students was related to Tendency to reach conclusion correctly ( $3.97\pm0.64$ ), while the lowest mean score was related to Tendency to evaluate external subjects ( $3.52\pm0.59$ ).

Table (22):- Critical thinking dispositions and critical thinking skills among second year nursing students regarding their educational qualification.

Items	Secondary school (N=105)	Technical institute of health (N=35)	Technical institute of nursing (N=32)	F	P- value
	Mean±SD	Mean±SD	Mean±SD		
1-critical thinking dispositions	$313.86 \pm 27.27$	$312.54 \pm 34.05$	$312.37 \pm 32.23$	0.201	≥ 0.05
2- Critical thinking skills.	$283.05 \pm 30.37$	280.48 ±30.66	$283.50 \pm 27.05$	0.115	≥ 0.05

This table shows that there was no significance difference between students' critical thinking dispositions (F=0.201, P $\geq$  0.05) and critical thinking skills (F=0.115, P $\geq$  0.05) in relation to their educational qualification.



critical thinking dispositions

Figure (2):- Correlation between critical thinking dispositions and critical thinking skills among second year nursing students.

It is clear from this figure that there was highly statistical significant positive correlation between students' critical thinking dispositions and critical thinking skills at ( $p \le 0.001$ ).