

# CONSTRUCTION AND VALIDATION OF NEED PATTERN QUESTIONNAIRE

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## Abstract

*The present study was aimed to develop and validate a scale to measure the Need Pattern of B.Ed. students. It can serve as a useful tool to access Need Pattern of B.Ed. college students in Villupuram district. As a result, the construction of this tool to access the student's Need Pattern is considered an important step in satisfying students' needs and improving the values and Life style of the Teacher.*

**Key words:** *Maslow Hierarchy Needs, Need Pattern, B.Ed (students) Prospective teacher, Values, Life style.*

## Introduction

Maslow's hierarchy of needs is a description of the needs that motivate human behavior. In 1943, Abraham Maslow proposed five different kinds of human needs, beginning with the most basic: survival. Physiological needs, such as food and shelter, are followed by needs related to safety. Next, there are needs of love and belonging. Fourth, humans have needs of esteem, such as the need for being respected. The final need in the hierarchy is the need for self-actualization (fulfilling one's potential). The hierarchy suggests that basic needs must be met prior to less basic needs; for example, a starving person will seek food before self-actualization.

To most psychologists, need is a psychological feature that arouses an organism to action toward a goal, giving purpose and direction to behavior. According to Karl Marx (1844) famously defined humans as "creatures of need" or "needy creatures" who experienced suffering in the process of learning and working to meet their needs. These needs were both physical needs as well as moral, emotional and intellectual needs.

The concept of need is especially important for a greater understanding of one's own behaviour and that of others with whom and through whom one works. "Needs" reflect an internal state that makes certain outcomes appear attractive.

A teacher is a person engaged in interactive behaviour with one or more learners for the purpose of igniting a change in learners. Teacher should be keen enough as to be able to smell even the minute changes that occur in the society. It is this important quality of the teacher that makes him a useful benefactor of the rising generation. He must be mature enough to have a philosophy of life of his own. Teacher being the king pin of the whole educational structure, is the authorized agent for the culture transmission.

The teaching profession is the most crucial, responsible to achieve the educational task. Now a days teachers face many problems. It shows that a prospective teacher is likely to be develop more in his needs.

## Statement of the problem

“A Study on Need Pattern of Prospective Teachers in Relation to their Cultural Determination, Value Pattern and Life Style”. Hence the present study stated as construction and Validation of Need Pattern Scale (NPS).

## Objective

To construct and validate a new scale namely, Need Pattern Scale (NPS).

## Sample of the present study

The data of the sample as many as 100 college students studying in the B.Ed., College in Villupuram district of Tamilnadu, India. Random sampling technique has been used in the process of data collection from the sample.

## Method of the study

Normative survey method has been used in the present study.

## Tool Description

The pilot study was conducted 100 college students studying in Education College (B.Ed.) in Villupuram district of Tamilnadu, India. Random sampling technique has been used in the process of data collection. Before conducting a pilot study the researcher got the permission to the principle of the Education College. This tool is available to measure the Need Pattern constructed and validated by the investigators. The tool NPS in the construction of the five point rating scale is the collection of a data from Education college (B.Ed.) students. Initially the scale consist of 60 statements revealing the Need pattern. The research tool was given to the experts in the field of Education. According to the expert opinion and pilot study some of the items were modified and restructured final draft of the scale.

The next step in the construction and validation of Need Pattern scale after pilot study is to find out Item-Total statistics vales of each statements which forms the basis for item selection in order to build up the final scale. The pilot study item analysis, 44 items were selected for the final draft of the scale and 16 items were subject to rejected. The scale scored the response to each statement on a ranging from “Strongly Agree, Agree, Undecided, Disagree, Strongly Disagree”.

## For example

5,4,3,2 and 1 scored as Strongly Agree response to Strongly Disagree for the positive respectively.

## Construction of Need Pattern Scale

**Table 1: Item –Total Statistics**

Question Numbers	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted	Remarks
1	228.5152	324.844	.438	.813	Selected
2	228.6869	328.299	.256	.817	Selected
3	229.2424	327.430	.207	.818	Selected
4	229.4242	323.777	.315	.815	Selected
5	229.8889	322.345	.313	.815	Selected
6	229.6768	331.078	<b>.135</b>	<b>.820</b>	<b>Rejected</b>
7	228.2626	337.563	<b>.023</b>	<b>.821</b>	<b>Rejected</b>
8	228.0000	326.939	.409	.814	Selected
9	229.4949	328.355	.218	.818	Selected
10	228.4444	328.862	.240	.817	Selected
11	229.2828	335.715	<b>.032</b>	<b>.823</b>	<b>Rejected</b>
12	228.3636	328.009	.296	.816	Selected

13	228.3939	323.384	.430	.813	Selected
14	228.4040	330.202	.226	.817	Selected
15	228.6162	319.790	.408	.813	Selected
16	229.0404	328.080	.234	.817	Selected
17	227.7778	326.440	.450	.814	Selected
18	228.1818	324.395	.369	.814	Selected
19	227.9192	325.953	.463	.814	Selected
20	228.8788	323.250	.339	.814	Selected
21	228.1212	325.720	.439	.814	Selected
22	228.7071	331.699	<b>.137</b>	<b>.820</b>	<b>Rejected</b>
23	228.9495	333.926	<b>.069</b>	<b>.822</b>	<b>Rejected</b>
24	228.2020	329.163	<b>.185</b>	<b>.818</b>	<b>Rejected</b>
25	228.3232	327.609	.251	.817	Selected
26	227.8889	326.590	.376	.814	Selected
27	228.5152	323.946	.342	.814	Selected
28	228.2626	331.175	.223	.817	Selected
29	228.0606	325.078	.397	.814	Selected
30	228.4848	333.885	<b>.128</b>	<b>.819</b>	<b>Rejected</b>
31	228.5960	339.631	<b>-.047</b>	<b>.824</b>	<b>Rejected</b>
32	228.1919	329.136	.320	.816	Selected
33	228.2727	330.955	.257	.817	Selected
34	228.4949	331.926	<b>.136</b>	<b>.820</b>	<b>Rejected</b>
35	228.0909	331.573	.251	.817	Selected
36	228.2525	325.395	.427	.814	Selected
37	228.8586	322.347	.442	.813	Selected
38	228.4141	327.225	.348	.815	Selected
39	228.4444	329.882	.235	.817	Selected
40	228.1919	331.340	.243	.817	Selected
41	228.3838	324.994	.346	.815	Selected
42	228.8182	324.048	.354	.814	Selected
43	228.0505	332.293	.237	.817	Selected
44	228.5859	321.633	.515	.812	Selected
45	228.3535	325.884	.340	.815	Selected
46	228.6061	330.527	.233	.817	Selected
47	229.3030	330.519	<b>.137</b>	<b>.820</b>	<b>Rejected</b>
48	228.4949	327.457	.248	.817	Selected
49	229.2323	339.976	<b>-.056</b>	<b>.826</b>	<b>Rejected</b>
50	229.0707	325.148	.281	.816	Selected
51	228.5859	337.306	<b>.020</b>	<b>.822</b>	<b>Rejected</b>
52	228.8687	325.258	.285	.816	Selected
53	228.7273	326.384	.272	.816	Selected
54	228.5455	329.332	.223	.817	Selected
55	228.1414	324.470	.405	.814	Selected
56	228.8687	332.830	<b>.119</b>	<b>.820</b>	<b>Rejected</b>
57	228.6667	331.633	<b>.133</b>	<b>.820</b>	<b>Rejected</b>
58	228.3434	336.105	<b>.068</b>	<b>.820</b>	<b>Rejected</b>
59	229.8283	336.287	<b>.017</b>	<b>.824</b>	<b>Rejected</b>
60	228.1212	332.026	.206	.818	Selected

By investigating the item-total correlation, the results reveals that the correlation of 16 items with the overall exam are below 0.25. While the other 44 items correlate at 0.25 or better. By investigating the inter item correlations, the results exert that again 16 items are significantly lower than the rest of the items. Finally, by

exploring the alpha if deleted, we can see that reliability of the scale would increase to 0.819. Thus we would probably delete these 16 items from this scale.

### Interpreting the scores

- Above 0.3 is considered “good”
- 0.2 to 0.3 is considered “workable”
- Below 0.2 is considered unacceptable

Item discrimination of above 0.3 is considered as good, a discrimination of 0.2 to 0.3 is considered workable, while a discrimination of below 0.2 is considered unacceptable.

**Table 2: Reliability and Validity Statistics**

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	No. of Items
0.819	0.911	60

From the above table 1, In order to establish reliability Cronbach's Alpha reliability coefficient of Need Pattern Scale was calculated to be **0.819**. The intrinsic validity coefficient was established by taking the square root of reliability coefficient which is **0.90**. Thus the tool is found to be highly reliable and valid. Generally, a questionnaire with a Cronbach's Alpha is 0.8 is considered reliable (Field, 2009).

**Table 3: Dimensions of Need Pattern Scale**

S.No	Dimensions of need pattern	Serial number of the Items
1.	Physiological needs	1,2,3,4,5,8,9,10,12
2.	Safety and security needs	13,14,15,16,17,18,19,20,21.
3.	Affiliation Needs	25,26,27,28,29,32,33,35,36.
4.	Achievement needs	37,38,39,40,41,42,43,44,45,46.
5.	Self-Actualization needs	50,51,52,53,54,55,60.

### Validity

In order to establish the validity of the tool, the investigator submitted the draft tool to the experts for their suggestion and judgment After studying the tool, the experts gave some suggestions to modify certain items. The investigator made necessary change. Thus the validity of the tool was ascertained.

### Reliability

In order to establish reliability Cronbach's Alpha reliability coefficient of Need Pattern Scale was calculated to be **0.819**. Thus the reliability of the tool was ensured.

## Conclusion

If you want to become a successful teacher, we should aware and analyses the problems in the society and act according to the situation. Education is the tool to change everything in the world. So the investigator constructed and validated need pattern scale to build an achieving society. It can serve as a useful tool to access Need Pattern of B.Ed. college students in Villupuram district. As a result, the construction of this tool to access the student's Need Pattern is considered an important step in satisfying students' needs. As the success in educational process in our nation primarily depend upon the needs of teachers.

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