

Mapping of an Aptitude of Library Science students in Relation to Some Variables

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Abstract

This study was undertaken to measure/mapping an Aptitude of library science students of Library Science Department Gujarat State. A total of 184 responses were collected in this study. In this study, researcher intended to find out the effect of variables i.e. Gender, Social Group and Faculty on Aptitude Test Score (ATS) of library science students. Librarian Aptitude test is constructed and standardized to gauge one's overall academic and professional competency. The finding of this study is showing that only one variable, Faculty of library science students' is effect on their Aptitude. LIS departments of all university should re think their policy for admission in this profession and re design the curricula with current scenario.

Keywords: Aptitude, Aptitude Test, Aptitude Test Score (ATS), Librarian Aptitude, Library Science.

Introduction:

It is a well-established fact that to succeed in any profession of today's highly competitive era, expertise knowledge of that particular profession is indispensable. For achieving progressive success in any profession, some specific interests, abilities and aptitudes well related with that particular profession is necessary. If we look at the history of human development, man has progressed through different types of societies. First, it was an agriculture based society, next came the era of industrial revolution in which the society became an industry-based one and now, at present, the third era has begun in which knowledge and information are most important for any type of development. The impact of this knowledge-information based era can be seen in the process of curriculum development for the degree of Library and Information Science. The curriculum has been enriched and expanded regarding the duties and responsibilities of the Librarian with a view to cope with the demands of the changing time. In this regard the person who has no interest in Library science education, has no interest in this profession, has no interest in knowing new techniques of information science and whose attitude is not positive towards users of library, if such person enters the profession of Librarianship then the next generation will suffer from his or her services. If we can confidently say the person who joins the profession of Librarianship has essential qualification and aptitude for this profession, then the output of Library science profession will be bright. However, today the admission of students in

Library science profession is only on the basis of merit of his graduation marks. Many questions can be raised up regarding the reliability of today's examinations and evaluation systems. Therefore, to say that students who have high merit will be successful as a Librarian is negligence of most important ability to succeed in this profession. Therefore, the researcher has selected this problem. In this study, the researcher is going to construct and standardize an aptitude test for the Librarianship profession and study the effect of some variables on Librarian aptitude test scores.

In present, study the term Aptitude is used in its wide and familiar meaning. Aptitude means the collection of qualities, characteristics and abilities which are God gifted or acquired and which show that if a person gets appropriate training in the relevant field he will get excellence in that particular field.

Statement of Problem:

The Researcher has formulated the problem for the present study as below “**Mapping of an Aptitude of Library Science students in Relation to Some Variables**”.

Review of Literature:

According to L. P. Mehrotra "One of the essential aspects of a research is to review the related literature. The investigator should know that his problem is not absolutely new but a lot of work has already been done on the problem which he proposes to study and therefore his effort should be acquaint himself with all the connected literature contributed previously by other investigators as far as possible. Such a systematic, through and relevant review of material promotes a greater understanding of the problem and resumes the avoidance of unnecessary duplication. It also helps him to make a comparative study of his findings with those of others and thus evaluate and interpret their significance."

In this study, the Researcher had tried to find out some new facts about the problem, with review of some research work all ready done. I have read and referred some related researches has been conducted in the past, are as under.

- I. *Construction and Standardization of Secondary Teacher Aptitude Test*, Ph.D. Thesis by J. J. Dixit, Education Dept., Bhavnagar University, Bhavnagar. 2007.
- II. *Construction and Standardization of an Aptitude Test for Primary School Teachers*, Ph.D. Thesis by M. U. Tamaliya, Education Dept., Saurashtra University, Rajkot. 2001.
- III. *Construction and Standardization of a Scientific Aptitude Test in Oriya for the 10th Class Students of Orissa*, Ph.D. Thesis by Banmalidas, Education Dept., Kurukshetra. University, 1987.

- IV. *The Construction and Standardization of a Musical Aptitude Test for Gujarati Children*, Ph.D. Thesis by D. S. Shukla, Gujarat. University. 1987.
- V. *Construction and Standardization of Mechanical Aptitude Test in Oriya for 10th Class Students of Orissa*, Ph.D. Thesis by S. K. Swain, Education Dept., Kurukshetra. University, 1986.

Need for the Study:

Libraries are essential to both civilization and democracy: they gather the former's collective intelligence, and facilitate its access. It is an accepted fact that integral and positive development of any society is highly dependent on its libraries, ranging from, school libraries, college libraries, university libraries, public libraries and research and other special libraries. Libraries have a recognized social function in making knowledge publicly available to all. They serve as local centers of information and learning, and are local gateways to national and global knowledge.

However, today the admission of students in Library science profession is only on the merit of his graduation marks. Many questions can be raised up regarding the reliability of today's examinations and evaluation systems. Therefore, to say that students who have high merit will be successful as a Librarian is negligence of most important ability to succeed in this profession. Therefore, the researcher has selected this problem.

While no test is an infallible gauge of one's ability, standardized aptitude tests provide students, school admission boards, and potential employers a basic idea of where an individual's weaknesses and strengths lie, as well as where they rank among their peers. It is for this reason such tests are a beneficial tool in the business and academic worlds.

Present study will show the current situation of Aptitude Score of library science students of Gujarat State. Findings of this study will show which independent variables effects on Aptitude. We can give him guidance and counseling according their ability and interest.

Objectives:

- To find out library science students' aptitude test score
- To find out library science students' aptitude test score with the context of their gender
- To find library science students' aptitude test score with the context of their social group
- Study of effect of faculty's on aptitude of library science students'.

Variables:

In this study, following dependent and independent variables were taken for the study of effect on aptitude of library science students’.

Dependent Variables: Aptitude Test Score of library science students’.

Independent Variables:

NO.	VARIABLE	LEVEL OF VARIABLE
1	Gender	(1) Male (2) Female
2	Social Group	(1) Reserved (2) Non Reserved
3	Faculty	(1) Arts (2) Other

Hypotheses:

In this study, following null hypotheses were framed based on independent variables, which were taken for this study.

- There will be no significant difference between the mean scores of Aptitude Test Score of library science students’ with respect to their gender.
- There will be no significant difference between the mean scores of Aptitude Test Score of library science students’ with respect to their social group.
- There will be no significant difference between the mean scores of Aptitude Test Score of library science students’ with respect to their faculty.

Methodology:

The present study was carried out using survey as the research method. **Sample:** The present study was conducted on a sample of 184 library science students of Library Science Department of Gujarat State. **Research Tools:** In this study, Aptitude Test constructed and standardized by Researcher (Dr. Nileshkumar M. Kantaria) was used for data collection. **Data Collection:** The data was collected in the normal classroom situation (condition) by investigator himself from the Library Science Department of Gujarat State. Librarian Aptitude Test was taken of library science students. **Data Analysis:** The response of library science students on Aptitude Test was evaluated. Mean, Standard Deviation and t-test were applied for testing hypotheses. The computer programme MS-Excel was used to analyze the collected data.

Result and Discussion:

There is three hypotheses had been constructed to know any effect of independent variable i.e. Gender, Social Group and Faculty on Aptitude Test Score of library science students. For statistical calculation, all hypotheses were converted into null hypotheses.

Mean, Standard Deviation, t-Value of each respondent group had been found out, and hypotheses had been tested at 0.01 and 0.05 level of Significant.

- Analysis and interpretation of Aptitude Test Score of library science students in the context of Gender is shown below.

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Table – 1: Mean, SD and t – Value scores on Aptitude Test of Male and Female Library Science students

Variable	Respondent	Mean	SD	σD	't' Ratio	Significance Level
Male	51	255.31	24.19	3.79	0.10	Not Significant
Female	133	254.93	19.71			

In above table mean of male library science students is 255.31 and mean of female library science students is 254.93. Standard error of Mean is 3.79. To find out of significance of means difference, t-Value is calculated. t-Value is 0.10 that is not significant at any level.

Result of tasted hypothesis show that groups of male and female library science students are equal in Aptitude Test Score. Thus in present study this hypothesis is not rejected.

- Analysis and interpretation of Aptitude Test Score of library science students in the context of Social Group is shown below.

Table – 2: Mean, SD and t – Value scores on Aptitude Test of Male and Female Library Science Students

Variable	Respondent	Mean	SD	σD	't' Ratio	Significance Level
Reserved	110	253.74	21.65	3.10	1.04	Not Significant
Non-Reserved	74	256.97	19.93			

In above table mean of reserved library science students is 253.74 and mean of non-reserved library science students is 256.97. Standard error of Mean is 3.10. To find out of

significance of means difference, t-Value is calculated. t-Value is 1.04 that is not significant at any level.

Result of tasted hypothesis show that groups of reserved and non-reserved library science students are equal in Aptitude Test Score. Thus in present study this hypothesis is not rejected.

- Analysis and interpretation of Aptitude Test Score of library science students in the context of Faculty is shown below.

Table – 3: Mean, SD and t – Value scores on Aptitude Test of Male and Female Library Science Students

Variable	Respondent	Mean	SD	σD	't' Ratio	Significance Level
Arts Faculty	132	252.92	19.98	3.59	2.09	0.05
Other Faculty	52	260.42	22.64			

In above table mean of arts faculty library science students is 252.92 and mean of other faculty library science students is 260.42. Standard error of Mean is 3.59. To find out of significance of means difference, t-Value is calculated. t-Value is 2.09 that is significant at 0.05 level.

Result of tasted hypothesis show that group of other faculty library science students superior to arts faculty library science students in Aptitude Test Score. Thus, in present study this hypothesis is rejected.

Findings:

The findings of the study are as under.

- There is no significant difference in means score of Aptitude Test between male and female library science students.
- There is no significant difference in means score of Aptitude Test in the context of Social Group of library science students.
- There is significant difference at 0.05 levels in means score of Aptitude Test between Faculty in favour of other faculty library science students.

Conclusion:

This study was about Mapping of Aptitude of Library Science students in Relation to Some Variables. Librarian Aptitude Test constructed and standardized by Researcher (Dr. Nileshkumar M. Kantaria) was used for data collection. The finding of this study is showing that one variable, Faculty of library scenic students is effecting on their Aptitude. On last,

Aptitude Test is helpful to decide for admission in Library & Information Science Profession. It is also helpful for faculties to give guidance and counseling to the students.

Scope for further Research:

There is no research is last, but it left behind many questions for further study. That is why always remains scope for further research. The researcher suggests that the Relation between Aptitude Score and Job Satisfaction of Librarian should be investigated. Effect of other variables on Aptitude of library science students is also interesting for the further study. It will be interesting to comparative study between Aptitude and Attitude of Library Professionals.

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