

## APPENDIX - A

1. Expansion of engineering education at the degree and diploma levels.
2. Number of candidates borne on the Live Register of the exchanges in the state belonging to main categories of engineering as on 31st December 1967.
- 3a. Intake of students categorywise for degree courses in engineering.
- 3b. Estimated outturn of students categorywise for degree courses in engineering.
- 4a. Intake of students categorywise for diploma courses.
- 4b. Estimated outturn of students categorywise in diploma courses.

### APPENDIX A-1

#### Expansion of Engineering education at the degree and diploma levels

Year	<u>DEGREE LEVEL</u>				<u>DIPLOMA LEVEL<sup>+</sup></u>			
	Number of Instns.	Sanc-tioned Intake	Actual Intake	Out-turn**	Number of Instns.	Sanc-tioned Intake	Actual Intake	Out tur
1950-51	49	4,119	4,119	2,198	86	5,903	5,903	2,4
1955-56	65	5,888	5,888	4,017	114	10,484	10,484	4,4
1960-61	102	13,824	13,692	5,703	195	25,801	23,736	7,9
1965-66	133	24,700	23,315	10,282	301	49,900	43,984	18,0

+ Including polytechnics for girls.

\* The difference between sanctioned intake and actual intake is largely due to the fact that new institutions in the process of establishment had to limit admissions to available facilities.

\*\* The outturn in a year is relatable not to the intake in the same year, but to that of the relevant earlier years, taking into consideration the duration of the course.

### APPENDIX A-2

Number of candidates borne on the Live Register of the Exchanges in the State belonging to main categories of Engineering, as on 31st December, 1967.

Particulars of Engineering	Graduates	Diploma-holders
Civil Engineering	310	1,947
Electrical Engineering	303	1,422
Mechanical Engineering	351	1,187
<b>TOTAL:</b>	<b>964</b>	<b>4,556</b>

APPENDIX A-3a.

Intake of students categorywise for degree courses in engineering.

Sl. No.	Category	1961-62	1962-63	1963-64	1964-65	1965-66
1.	Civil, Mechanical and Electrical	1,365	1,727	2,124	2,128	2,170
2.	Chemical Engineering	-	-	-	-	30
3.	Metallurgy	-	-	-	-	30
	Totals:	1,365	1,727	2,124	2,128	2,230

Notes: Courses in Chemical Engineering and Metallurgy were started in Karnatak Regional Engineering College, Suratkal only in 1965-66.

APPENDIX A-3b.

Estimated outturn of students, categorywise, for degree courses in engineering.

Sl. No.	Category	1966-67	1967-68	1968-69	1969-70	1970-71
1.	Civil Engineering	394	456	599	607	639
2.	Mechanical Engineering	426	540	664	673	710
3.	Electrical Engineering	250	327	402	408	430
	Totals:	1,069	1,353	1,664	1,688	1,779

Notes: No estimate is prepared in respect of Chemical Engineers and Metallurgy for want of data.

APPENDIX A-4a.

Diploma Courses

Intake of students, categorywise, for diploma courses

Sl.No.	Category	1963-64	1964-65	1965-66	1966-67	1967-68
1.	Civil Engineering	1,208	1,051	1,005	894	894
2.	Mechanical Engineering	1,263	1,253	1,159	1,077	1,077
3.	Electrical Engineering	1,074	1,030	1,046	934	934
4.	All other branches of Engg. like Auto Engg., Mining, Radio, Textile, Cinematography, etc.	285	227	248	287	287
	Total:	3,830	3,561	3,458	3,192	3,192

APPENDIX A-4b

Estimated outturn of students, categorywise, in diploma courses.

Sl.No.	Category	1966-67	1967-68	1968-69	1969-70	1970-71
1.	Civil Engineering	808	703	672	599	598
2.	Mechanical Engineering	968	968	520	896	832
3.	Electrical Engineering	730	700	711	635	635
4.	All other branches of Engg. like Auto Engg., Mining, Radio, Textile, Cinematography, etc.	151	116	135	158	158
	Total:	2,657	2,487	2,038	2,287	2,223

APPENDIX - B

INVENTORY AND INFORMATION USED IN STUDY

1. Personality Inventory
- 2a. List of values (words) used in the study
- 2b. List of values (statements) used in the study
3. Interest Inventory
4. General Information
5. The significance of the difference between percentages

A. PENNIX-B - 1

N. I. . INVENTORY+

INDIAN INSTITUTE OF SCIENCE, BANGALORE 12.

Name:

Education:

Present Occupation:

INSTRUCTIONS: This inventory contains 40 statements regarding the way you behave, feel and act in everyday life. If the statement represents your usual way of acting or feeling, draw a circle around 'yes', if not draw a circle around 'No'.

There are no right or wrong answers. Therefore please answer each statement truthfully and frankly. Do not omit any statement. Your answers will be kept confidential and used for scientific purposes only. Work as quickly as you can.

				<u>Critical Ratios</u>
1. I enjoy social gatherings or parties	<u>Yes</u>	No	T	2.38
2. I get up rested most of the mornings	Yes	<u>No</u>	N	3.60*
3. My feelings change from happy to sad and sad to happy for no reason	<u>Yes</u>	No	I	3.46
4. My interests change again and again	<u>Yes</u>	No	N	2.67*
5. I do not like to be a leader at social functions.	Yes	<u>No</u>	T	1.96
6. I have been off work/classes a good deal because of sickness	<u>Yes</u>	No	N	1.96
7. Sometimes I walk in sleep	<u>Yes</u>	No	N	3.46*
8. I can do good work even while people are looking on	Yes	<u>No</u>	I	2.42
9. I like to change from one type of work to another very often	<u>Yes</u>	No	T	2.16
10. I am anxious (worried) about something or someone almost all the time	<u>Yes</u>	No	N	2.15

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+ Neuroticism, Introversian, Extroversian Inventory

11. I become conscious of being observed in the presence of superiors	<u>Yes</u>	<u>No</u>	I	2.29
12. I work under a great deal of tension (mental strain)	<u>Yes</u>	No	N	6.29*
13. I am not afraid of being punished	<u>Yes</u>	No	I	2.21
14. I can sit quiet without fidgetting (without making movements)	<u>Yes</u>	<u>No</u>	N	2.67*
15. I like to have excitement (i.e. rousing or stimulation) in life	<u>Yes</u>	No	F	2.22
16. My memory is good	<u>Yes</u>	<u>No</u>	I	1.96
17. I feel rather poorly adjusted to people as I do not seem to get on as well as I should	<u>Yes</u>	No	N	2.45
18. Now and then I have dreams about my work	<u>Yes</u>	No	N	4.72*
19. I am unhappy most of the time	<u>Yes</u>	<u>No</u>	F	9.27*
20. I worry over possible misfortune	<u>Yes</u>	No	I	3.18*
21. I like to be very correct in manners and social obligations	<u>Yes</u>	No	N	2.05
22. Criticisms or scoldings do not hurt me very much	<u>Yes</u>	<u>No</u>	N	2.04
23. I blush (become red in the face) very often in the presence of others	<u>Yes</u>	No	I	2.80*
24. I do not have a wide circle of friends	<u>Yes</u>	<u>No</u>	F	2.47
25. I have no confidence in others	<u>Yes</u>	No	N	9.27*
26. One should act on suggestions quickly rather than stopping to think	<u>Yes</u>	No	F	2.15
27. I do not feel inferior to other people	<u>Yes</u>	<u>No</u>	N	2.05
28. I cannot sleep because ideas run through my mind.	<u>Yes</u>	No	N	2.39*
29. I do not like to keep quiet when out in a group	<u>Yes</u>	<u>No</u>	I	2.94*
30. Life is for getting pleasure	<u>Yes</u>	No	F	2.67*
31. Sometimes I get short of breath without having done heavy work	<u>Yes</u>	No	N	3.46*
32. I am not worried and upset very often	<u>Yes</u>	<u>No</u>	N	2.86*
33. I have the habit of twitching (jerk- ing, moving) my face, neck and shoulders	<u>Yes</u>	No	N	2.67*

34. I am not usually calm and collected most of the time	<u>Yes</u>	<u>No</u>	I	2.26
35. I do not easily get tired of meeting people and talking to them	<u>Yes</u>	No		2.14
36. I get palpitations or thumpings (loud beating) in my heart	<u>Yes</u>	No	N	2.58*
37. Usually I sleep well	Yes	<u>No</u>	N	3.26*
38. I would prefer to stay at home rather than attend a social function or party	<u>Yes</u>	No	I	2.47
39. I feel many people do not care for me	<u>Yes</u>	No	N	2.94*
40. I do not like public speaking	Yes	<u>No</u>	S	2.36

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Items marked with an asterisk (\*) are significant at the .01 level, while other unmarked items are significant at the .05 level.

(E = Extroversion, I=Introversion, N = Neuroticism)

APPENDIX B-2a

Name: .....

Instructions:

Here are 15 words. Please read through them carefully, and rank them. Give the first rank to the most important value to you from the point of view of securing a job and being successful in it, the second rank to the one next in importance and so on until you give the fifteenth rank to the least important value to you. You may put the rank in the space provided against the values. Please be frank and sincere in your judgement.

<u>VALUES</u>	<u>RANKS</u>
AMBITION	...
COURAGE	...
DETERMINATION	...
FAITH	...
HARMONY	...
INITIATIVE	...
LEADERSHIP	...
DEPENDENCE	...
POWER	...
SECURITY	...
SIMPLICITY	...
SERVICE	...
SELF-EXPRESSION	...
SOCIALITY	...
WEALTH	...

APP. MIX B-2b

DEPARTMENT OF INDUSTRIAL MANAGEMENT  
INDIAN INSTITUTE OF TECHNOLOGY  
BANGALORE 12

Name: . . . . .

Instructions:

Here are 15 simple statements, please read through them carefully and understand them first, and then give rank to each statement. For example, the first rank to the most important statement to you from the point of view of securing a job and being successful in it, the second rank to the one next in importance and so on until you give the fifteenth rank to the least important statement to you. You may mark the rank in the space provided against each statement. Please be frank and sincere in your judgement.

<u>Sl.No.</u>	<u>Statements</u>	<u>Ranks</u>
1.	Having a position of authority and power over others	...
2.	Being well known to all	...
3.	Having a good deal of money and property	...
4.	Living with understanding and adjustment with others	...
5.	Confident of being protected; being safe	...
6.	Being the head or leader of a group of people	...
7.	Being persistent in your aim by facing all sorts of difficulties in order to reach the goal	...
8.	Having a strong will	...
9.	Starting some work on your own without being prompted or advised by others	...
10.	Having a strong desire for something you want	...
11.	Being earnest and sincere	...
12.	Being helpful to others	...
13.	Being expressive of your feelings, ideas, talents or skills	...
14.	Being brave and bold	...
15.	Mixing freely with others; enjoy social gatherings	...

APPENDIX B-3

INDIAN INSTITUTE OF SCIENCE  
BANGALORE 12

Name: . . . . .

INTERESTS INVENTORY

Part I - Occupations

Instructions: Write against each of the following occupations

the Letter 'L' if you like that kind of work  
the Letter 'I' if you are indifferent to that work  
the Letter 'D' if you dislike that kind of work

- |                         |                          |                           |
|-------------------------|--------------------------|---------------------------|
| 1. Accountant           | 25. Electrical Engineer  | 49. Newspaper Reporter    |
| 2. Actor                | 26. Explorer             | 50. Office Clerk          |
| 3. Advocate             | 27. Factory Manager      | 51. Office Superintendent |
| 4. Architect            | 28. Factory Worker       | 52. Office Manager        |
| 5. Army Officer         | 29. Farmer               | 53. Optician              |
| 6. Artist               | 30. Film Director        | 54. Painter               |
| 7. Astronomer           | 31. Flutist              | 55. Photographer          |
| 8. Auditor              | 32. Governor of State    | 56. Physician             |
| 9. Author of a novel    | 33. Hotel Keeper         | 57. Post Master           |
| 10. Aviator (Pilot)     | 34. Hotel Manager        | 58. Poet                  |
| 11. Bank Clerk          | 35. Inventor             | 59. Politician            |
| 12. Banker              | 36. Jeweller             | 60. Printer               |
| 13. Book Keeper         | 37. Jockey               | 61. Private Secretary     |
| 14. Building Contractor | 38. Labour Officer       | 62. Salesman              |
| 15. Bus Conductor       | 39. Lawyer               | 63. Sales Manager         |
| 16. Car Driver          | 40. Librarian            | 64. School Teacher        |
| 17. Carpenter           | 41. Life Insurance Agent | 65. Social Worker         |
| 18. Chemist             | 42. Locomotive Engineer  | 66. Statistician          |
| 19. Civil Engineer      | 43. Magazine Writer      | 67. Stenographer          |
| 20. College Professor   | 44. Mechanic             | 68. Surgeon               |
| 21. Composer            | 45. Mechanical Engineer  | 69. Surveyor              |
| 22. Compounder          | 46. Musician             | 70. Typist                |
| 23. Crime detective     | 47. Navy Officer         | 71. Violinist             |
| 24. Dentist             | 48. Newspaper Editor     | 72. Watch Repairer        |

Part II - School Subjects

**Instructions:** Write against each of the school subjects mentioned below

the Letter 'L' if you like that subject  
the Letter 'I' if you are indifferent to that subject  
the Letter 'D' if you dislike that subject

- |                          |  |                 |
|--------------------------|--|-----------------|
| 73. Accountancy          | 81. Social Studies                                 | 89. Music       |
| 74. Agriculture          | 82. English Composition                            | 90. Literature  |
| 75. Algebra              | 83. Geography                                      | 91. Physics     |
| 76. Arithmetic           | 84. Geometry                                       | 92. Physiology  |
| 77. Art                  | 85. History  | 93. Spelling    |
| 78. Engineering Subjects | 86. Poetry   | 94. Typewriting |
| 79. Botany               | 87. Military Training                              | 95. Zoology     |
| 80. Chemistry            | 88. Military Drill (Physical Training)<br>(N.C.C.) |                 |

Part III - Activities

**Instructions:** Write against each of the activities given below

the Letter 'L' if you like these activities  
the Letter 'I' if you are indifferent to those activities  
the Letter 'D' if you dislike those activities

- |                                     |                                   |                                     |
|-------------------------------------|-----------------------------------|-------------------------------------|
| 96. Arguments and discussions       | 107. Entertaining others          | 117. Raising flowers and vegetables |
| 97. Adjusting others' difficulties  | 108. Giving "First Aid"           | 118. Raising money for charity      |
| 98. Buying goods                    | 109. Inventing new machine        | 119. Regular hours of work          |
| 99. Bargaining                      | 110. Interviewing men for jobs    | 120. Saving money                   |
| 100. Collecting rare coins          | 111. Living in the city           | 121. Scouting                       |
| 101. Crime detection                | 112. Making a speech              | 122. Treating patients              |
| 102. Conversation with strangers    | 113. Organising a Drama           | 123. Teaching children              |
| 103. Decorating a room with flowers | 114. Organising games             | 124. Teaching adults                |
| 104. Doing research work            | 115. Repairing a clock            | 125. Writing personal letters       |
| 105. Directing people               | 116. Repairing electrical wirings | 126. Writing newspaper reports      |
| 106. Developing business            |                                   | 127. Writing stories                |

Part IV - Amusements

Instructions: Write against each of the items given below

the Letter 'L' if you like the amusement

the Letter 'I' if you are indifferent to the amusement

the Letter 'D' if you dislike the amusement

- |                              |   |                                 |
|------------------------------|---|---------------------------------|
| 128. Athletics               | 144. Excursions                           | 159. Novels                     |
| 129. Amusement parks         | 145. Football                             | 160. Picnic parties             |
| 130. Attending dance parties | 146. Fortune telling                      | 161. Playing cards              |
| 131. Art galleries           | 147. Going out for walk alone             | 162. Poetry                     |
| 132. Badminton               | 148. Going to historic places and temples | 163. Radio programmes           |
| 133. Basket-ball             | 149. Gymnasium                            | 164. Smoking                    |
| 134. Boxing                  | 150. Hunting                              | 165. Solving difficult problems |
| 135. Carrom                  | 151. Jigsaw puzzles                       | 166. Sports                     |
| 136. Chess                   | 152. Kabbadi                              | 167. Table Tennis               |
| 137. Cinema                  | 153. Magic                                | 168. Taking walks with friends  |
| 138. Collecting stamps       | 154. Museums                              | 169. Tennis                     |
| 139. Cricket                 | 155. Musical performance                  | 170. Visiting the Zoo           |
| 140. Crossword puzzles       | 156. Musical chairs                       | 171. Volley-ball                |
| 141. Detective stories       | 157. Nature study                         | 172. Wire puzzles               |
| 142. Draughts                | 158. Newspapers                           | 173. Word building              |
| 143. Driving automobile      |   | 174. Wrestling                  |

Part V - Preference of Ideal Personalities

Instructions: Write against each item given below

the Letter 'L' if you like that person

the Letter 'I' if you are indifferent to that person

the Letter 'D' if you dislike that person

- |                           |                                     |                                       |
|---------------------------|-------------------------------------|---------------------------------------|
| 175. Aristotle            | 191. Kautilya                       | 207. Ranjit Singh                     |
| 176. Bertrand Russel      | 192. Kirloskar                      | 208. Rana Pratap                      |
| 177. Birla                | 193. Krishnan R.<br>(Tennis Player) | 209. Ravishankar                      |
| 178. Bismilla Khan        | 194. Lister                         | 210. Shankaracharya                   |
| 179. Buddha               | 195. Madan Mohan .<br>Malaviya      | 211. Saigal (Singer)                  |
| 180. Charles Dickens      | 196. Mahaveera                      | 212. Shivaji                          |
| 181. Dharmendra (Actor)   | 197. Marconi                        | 213. Sobers                           |
| 182. Dilip Kumar          | 198. Montessori                     | 214. Subhash Chandra<br>Bose          |
| 183. Edward Jenner        | 199. Narayan, R.K.                  | 215. Subbulakshmi, M.                 |
| 184. Einstein             | 200. Nutan (Actress)                | 216. Subba Rao (Justi                 |
| 185. Eliot, T.S.          | 201. Nehru                          | 217. Tata                             |
| 186. Euclid               | 202. Pasteur, Louis                 | 218. Tilak                            |
| 187. Galileo              | 203. Pataudi                        | 219. Tagore                           |
| 188. George<br>Stephenson | 204. Radhakrishnan                  | 220. Visweswarayya<br>(Industrialist) |
| 189. James Watt           | 205. Ramakrishna<br>Paramahansa     | 221. Wells, H.G.                      |
| 190. Kalidasa             | 206. Raman, C.V.                    | 222. Zakir Hussain                    |

APPENDIX B-4

DEPARTMENT OF INDUSTRIAL MANAGEMENT  
INDIAN INSTITUTE OF SCIENCE  
BANGALORE 12

GENERAL INFORMATION

(Confidential)

INTRODUCTION:

This is a research study. You are requested to answer certain simple questions. The information is not required in any way for official purposes. It is needed only in order to understand your problems. Your answers will be treated in the strictest confidence and used for research purposes only. Therefore please answer all the questions frankly and freely.

Name:

Age:

1. (a) Where were you born? City.....Town.....Village..  
(b) Where were you brought up? City.....Town.....Village..
2. Your birth order: 1st born, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th and above. Only child (Circle one)
3. Marital Status: Married..... Unmarried.....  
Divorced..... Widowed..... Separated.....
4. (a) Family: Joint family..... Living alone ..... Living with wife and children.....  
(b) Total Number of family members .....
5. On whom do you depend for your maintenance?  
Father..... Brother..... Other relatives.....  
Self.....
6. Is your wife employed? Yes..... No.....  
If so, what is her occupation? .....



16. Do your parents own their home? Yes..... No.....
17. How many times have you moved from one town to another in the last five years? ..... times.
18. Do you consume alcoholic drinks? (Liquor, wine)  
Often..... Occasionally..... Never.....
19. (a) Have you ever served in Defence.  
Yes..... No.....  
(b) Are you prepared to serve?  
Yes..... No.....
20. How often do you attend temple/church/mosque? (Specify)  
Regularly..... Irregularly..... Sometime.....  
Never.....
21. Do you regard your health as, very good..... Fair.....  
Poor.....
22. What hobbies do you have? Name two (1)..... (2) .....
23. How long have you been unemployed? Year..... Months.....
24. Are any of your classmates or friends unemployed?  
Yes..... No..... If yes, how many?
25. Mention the name and place of the High School attended by you.  
Name:..... Place: .....
26. Mention the name and place of College attended by you, if any  
Name :..... Place: .....
27. What jobs part-time/full time have you held since leaving school polytechnic Institute/Colleges.  
Please specify: Part time/Full time.

Give details below:

<u>Type of Jobs Held</u>	<u>Approximate dates,</u> From To	<u>Industry &amp; Employer</u>	<u>Approximate monthly salary</u>	<u>How was the job obtained</u>
1.				
2.				
3.				
4.				

\*How was the job obtained? Specify according to the following list.

- 1. School or teacher's help.
- 2. Parent(s)
- 3. Friend(s)
- 4. Personal effort.
- 5. Advertisement
- 6. Employment Agency (Specify)
- 7. Any other way (Specify)

28.(a) Details of educational qualifications (Matriculation)

Name of the examination passing	Year of	Instn. or Univ.sub/branch	Optional	Details of distinction/scholarship awarded
---------------------------------	---------	---------------------------	----------	--

- 1.
- 2.
- 3.
- 4.

(b) Special technical and other qualifications, if any

.....

(c) Have you ever served regular apprenticeship, give detail

29. Academic Grades in school/college:

- (a) Excellent .....
- (b) Above average .....
- (c) Average.....
- (d) Below average.....
- (e) Poor.....

30. During your school days to what degree were the following factors emphasised in your home? Tick one of the alternat given below, for each item.

	Very much	Some-what	Not at all
--	-----------	-----------	------------

(a) Religion

(b) Cultural Interest: (Music, dance and other fine arts.)

(c) Materialistic things: (owning a house, a vehicle, radio, etc.)

(d) Community activities: (boy scouts, youth groups, A.C.C., N.C.C., etc.)

(e) Social activities (Parties, weddings, picnics, etc.)

31. Did you have to repeat any class/  
classes you might have failed? Yes..... No.....

If so, which class/classes did you  
repeat? (Specify)

32. Mention three subjects of study which you liked best

- 1.....
- 2.....
- 3.....

(b) Mention three subjects of study which you liked least.

- 1.....
- 2.....
- 3.....

33.(a) Did you participate in extra curricular activities in  
school and college? To a good extent..... To some  
extent..... Very little..... Nil.....

(b) Type of extra curricular activities: Athletics.....  
Stage play..... Debating..... Music..... Others...  
(Specify).

(c) Did you hold an office or position of leadership in these  
activities. Yes..... No..... (Specify)

34. Who was the person at school/college who helped you most with  
your problems?

Teacher..... Lecturer..... Principal.....  
Friend..... None..... Others..... (Specify)

35. On the whole did you feel that your teachers had an interest  
you, as an individual? Yes..... No.....

36. How much education do you think a young person needs these  
days to get along well in the world?

Primary..... Higher Secondary..... College.....  
Technical degree/diploma..... Don't know.....

37. Mention three jobs that you like the most, in order of your  
preferences:

Jobs

- 1.....
- 2.....
- 3.....

(b) Mention three jobs that you dislike the most, in order of  
your dislike.

Jobs

- 1.....
- 2.....
- 3.....

38. What is the highest position you would like to attain?

39. Would you prefer to be an Engineer earning about Rs.5,000/- a year or a merchant earning about Rs.10,000/- a year?

Engineer..... Merchant.....

40. (a) Are you prepared to take up any job? Yes.... No.....

(b) If not, what type of job are you prepared to take up now?

41. Did your family encourage you to be independent?

Very much..... Somewhat..... No encouragement.....

42. (a) Did your father ever say to you that he wanted to get an education so that you could get a better job than he had?

Yes..... No.....

(b) Did your mother ever say to you that she wanted you to get an education so that you could get a better job than your father had?

Yes..... No.....

43. How close were the members of your family?

Very close..... Close..... Not close.....

44. Would you be interested in receiving training for an occupation if no subsistence payment is available during training?

Yes..... No..... Cannot say.....

45. Are you prepared to work anywhere in India?

Yes..... No.....

46. Do you regret for having studied Engineering/Science/Arts/any other course? Yes..... No.....

47. What in your opinion are the reasons for others/you to have got the employment?

48. (a) In which State is your native place located?

(b) What is the approximate population of your native village town, or city in which you or your parents lived before coming to Bangalore.

1. Less than	1000
2. 1000	- 5000
3. 5000	- 10000
4. 10000	- 20000
5. 20000	- 50000
6. Over	50000

49. What factor or factors do you feel are very important in occupational success?  
(Mark any three of the following in order of importance)

- 1. Promptness and regularity in work .....
- 2. Ability to get along with others .....
- 3. Good working habits .....
- 4. Ambition .....
- 5. Initiative .....
- 6. Necessary skill .....
- 7. Information and knowledge .....
- 8. Ability to follow directions .....
- 9. Honesty and reliability .....
- 10. Use of influence .....
- 11. Any other (specify) .....

50. As you see things now, what kind of work would you like to be doing, say five years from now?

51. How many times have you applied for jobs?  
..... times.

52. What monthly salary approximately, do you hope to receive five years from now?

53. (a) How many times have you been called for interview?  
..... times.

(b) According to you what are the reasons for your not being selected?

.....  
.....

54. Do you think you know all the job opportunities that are available to a man of your qualifications.  
Yes..... No.....

55. Even after securing a job, do you fear that you might lose the job? Yes..... No.....

56. What, in your opinion, are the reasons for your remaining unemployed?

57. Any other information you wish to state about the unemployment situations:

.....  
.....

THANK YOU VERY MUCH

APPENDIX B-5

The significance of the difference between percentages

To find out the critical ratios for the socio-economic data, the following formula has been used.\*

$$SE_{\%} = \sqrt{\frac{PQ}{N}}$$

where P = Percent occurrence of the observed behaviour,

$$Q = (1-P)$$

N = is the size of the sample.

A pooled estimate of P is obtained from the equation

$$P = \frac{N_1P_1 + N_2P_2}{N_1 + N_2}$$

Q being, of course, (1-P)

The estimated percentages, P and Q, may now be put in formula to give SE of the difference between P<sub>1</sub> and P<sub>2</sub>.

$$\sigma_{D\%} = \sigma_{P_1 - P_2} = \sqrt{\sigma_{P_1}^2 + \sigma_{P_2}^2}$$

OR

$$\sqrt{\frac{PQ}{\frac{1}{N_1} + \frac{1}{N_2}}}$$

( SE of the difference between two uncorrelated percentages)

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\* GARRETT, H.E.: "Statistics in psychology and education"  
Allied pacific private ltd. p.235-236.

A P P E N D I X - C

1. Rank-Correlation Coefficient of Values
2. Percentile Scores of various groups on progressive matrices test.
3. Percentile Scores of various groups on Mechanical Reasoning test.
4. Percentile Scores of various groups on Space relations test.
5. Scores (in percentages) of unemployed and employed graduates on Interest Inventory.
6. Scores (in percentages) of unemployed and employed diploma-holders on Interest Inventory.

APPENDIX C-1

RANK CORRELATION COEFFICIENT

$$1 - \frac{6 \sum D^2}{N(N^2-1)}$$

$$1 - \frac{6 \times 159}{15(225-1)} = \frac{954}{3360} = .28$$

$$1 - .28 = .72$$

$$\underline{r = .72}$$

$$\text{Student's } t = \frac{r}{\sqrt{1-r^2}} \times \sqrt{N-2}$$

$$= \frac{.72 \times 3.606}{.69} = \frac{2.59632}{.69}$$

$$t = 3.76$$

r = Correlation Coefficient  
N = Number of subjects  
D = Difference between the rank of ranks for the same subjects.

$$r = .72$$

$$t = 3.76$$

APPENDIX C-2

Calculation of Certain Percentiles - Progressive Matrices

Percentiles	U.G.	E.G.	U.D.	E.D.	Age.Gr.	Age.Gr.	Age.Gr.
					20 - 25	26 - 30	18 - 21
					ENGG. Graduates	ENGG. Graduates	S.S.L.C
100	60.50	60.50	60.50	60.50	56	51	60
99	59.55	59.80	56.80	58.35			
97	57.65	58.45	53.45	55.10			
95	55.75	57.05	51.00	53.90	53	50	53
90	54.55	55.10	48.80	50.85	52	49	51
85	53.55	54.40	46.95	49.70	50	47	50
80	52.60	52.60	45.25	48.75	49	46	49
75	51.60	52.95	44.25	47.05	49	45	47
70	50.60	52.20	43.20	46.90	48	44	46
65	49.80	51.50	42.20	46.00	46	43	45
60	49.05	50.75	41.15	45.10	45	42	44
55	48.30	49.60	40.05	43.80	44	41	43
50	47.50	48.25	38.85	43.30	43	39	42
45	46.75	46.85	37.60	42.40	42	38	41
40	45.59	45.50	36.35	41.55	41	37	39
35	44.75	44.65	34.85	40.65	38	36	38
30	42.80	43.80	33.40	39.15	37	35	37
25	40.80	42.90	31.90	37.55	36	32	35
20	39.15	42.05	30.25	35.90	34	30	33
15	37.60	41.20	26.75	33.20	31	29	29
10	36.00	39.85	18.95	30.00	22	26	23
5	28.40	36.45	13.85	25.75	16	23	16
3	19.75	33.75	13.25	18.25	14	22	15
1	10.25	23.25	9.20	12.60	-	13	11
Mean	45.53	47.54	36.88	41.82			
S.D.	8.99	6.76	10.71	8.80			
N.	95	55	148	85	210	185	1240

Ataulla, M.A., paper presented to the 7th Conference of the Indian Academy of Applied Psychology 1969.

\* Secondary School Leaving Certificate.

Calculation of Certain Percentiles - Mechanical Reasoning

Percentiles	U.G.	E.G.	U.D.	H.D.	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
100	60.50+	65.50+	50.50+	50.50+					
99	55.75	62.75	44.30	48.35	59.00+	60.00+	62.00+	65.00+	65.00+
97	49.20	58.85	39.30	44.80	53-58	56-59	60-61	62-64	63-64
95	47.80	46.10	36.85	42.70	50-52	53-55	57-59	59-61	60-62
90	44.80	51.35	33.55	36.35	46-49	50-52	54-56	57-58	59
85	42.65	48.60	31.10	34.40	44-45	48-49	52-53	55-56	57-58
80	40.50	46.35	29.05	33.15	42-43	46-47	50-51	53-54	56
75	37.85	44.40	27.10	32.00	40-41	44-45	48-49	51-52	54-55
70	35.40	42.70	25.25	30.65	38-39	40-43	47	50	53
65	34.25	40.95	24.00	29.25	36-37	41	45-46	48-49	51-52
60	33.10	39.60	22.70	27.85	34-35	39-40	44	47	50
55	32.00	38.35	21.45	26.40	33	37-38	42-43	46	49
50	30.85	37.10	20.15	25.05	31-32	35-36	41	44-45	47-48
45	29.65	35.85	18.95	23.70	29-30	34	39-40	43	46
40	28.40	34.65	17.70	22.35	27-28	32-33	37-38	41-42	44-45
35	27.15	33.50	16.45	21.05	25-26	30-31	35-36	39-40	42-43
30	25.90	32.35	15.15	19.65	23-24	28-29	33-34	37-38	41
25	23.25	31.25	13.45	18.25	21-22	26-27	31-32	35-36	39-40

Contd.

Percentiles	U.G.	E.G.	U.D.	E.D.	Grade 8	Grade 9	Grade 10	Grade 11	Grade
20	22.65	29.25	11.75	16.85	19-20	23-25	28-30	32-34	36-38
15	20.95	25.90	9.95	15.30	16-18	20-22	25-27	29-31	33-35
10	16.10	21.35	7.60	11.75	13-15	16-19	20-24	24-28	28-32
5	11.25	18.25	5.10	8.20	8-12	11-15	15-19	19-23	24-28
3	7.60	17.15	3.25	6.80	4-7	7-10	12-14	15-18	17-20
1	2.85	16.05	1.40	4.75	0-3	0-6	0-11	0-14	0-16
Mean	30.68	37.36	20.36	25.06	30.80	34.90	39.60	42.90	45.90
S.D.	10.68	10.66	9.58	9.71	12.80	12.60	12.50	12.00	11.20
N.	95	55	148	85	3400±	6900±	3400±	2700±	2100±

APPENDIX C-4

Calculation of Certain Percentiles - Space Relations

Percentiles	U.G.	E.G.	U.D.	E.D.	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
100	75.50+	90.50+	75.50+	80.50+					
99	73.10	87.75	71.40	76.25	83+	87+	91+	92+	94+
97	68.35	73.85	63.10	66.60	76-82	81-86	87-90	88-91	89-93
95	64.55	71.10	56.85	64.25	70-75	75-80	82-86	83-87	85-88
90	59.00	65.00	52.15	57.99	64-69	69-74	76-81	79-82	81-84
85	52.35	62.25	46.50	53.75	59-63	64-68	72-75	75-78	78-80
80	48.85	59.50	39.35	49.65	54-58	60-63	68-71	72-74	75-77
75	46.85	56.75	34.05	46.10	51-53	56-59	65-67	69-71	73-74
70	44.90	53.00	29.65	43.00	47-50	53-55	62-64	66-68	70-72
65	43.10	49.85	27.00	39.85	42-46	49-52	58-61	63-65	67-69
60	41.25	48.50	23.90	36.35	38-41	45-48	53-57	60-62	64-66
55	38.95	47.10	20.25	33.85	34-37	41-44	51-54	56-59	62-63
50	36.35	45.75	17.15	31.75	29-33	37-40	47-50	53-55	58-61
45	33.70	44.10	14.65	28.75	25-28	33-36	43-46	49-52	55-57
40	31.05	42.35	12.80	24.50	22-24	29-32	38-42	44-48	50-54
35	27.80	40.65	10.95	20.40	19-21	25-28	32-37	38-43	46-49

Contd.

Percentiles	U.G.	E.G.	U.D.	E.D.	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
30	24.55	37.35	9.40	18.90	16-18	21-24	27-31	32-37	41-45
25	21.60	33.95	7.90	17.35	14-15	17-20	22-26	27-31	35-40
20	18.00	30.50	6.40	15.85	11-13	14-16	18-21	22-26	28-34
15	14.05	27.05	4.70	10.35	8-10	11-13	15-17	17-21	22-27
10	10.10	21.75	2.65	7.70	5-7	7-10	9-12	12-16	16-21
5	6.10	14.95	1.60	4.75	2-4	3-6	4-8	7-11	11-15
3	4.05	12.10	-3.70	3.03	1	1-2	1-3	2-6	6-10
1	1.70	8.25	-8.05	1.35	0	0	0	0-1	0-5
Mean	35.05	44.91	22.43	32.23	34.00	39.10	46.00	49.90	54.60
S.D.	17.48	16.53	18.57	17.80	22.40	23.40	25.00	24.50	23.60
N.	95	55	148	85	3400 $\pm$	6900 $\pm$	3400 $\pm$	2700 $\pm$	2100 $\pm$

APPENDIX C-5

Scores (in percentages) of unemployed and employed graduates on Interest Inventory. (N: U.G. = 95; E.G. = 55).

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the E.G.	Difference
	L	I	D	L	I	D			
1. Accountant	17	42	41	18	42	40	0	0	0
2. Actor	37	23	40	33	34	33	+23	+34	11
3. Advocate	26	25	49	25	26	49	0	0	0
4. Architect	74	18	8	54	33	13	-130	-75	55*
5. Army Officer	60	19	21	38	44	18	-82	+12	94*
6. Artist	53	32	15	56	35	9	0	0	0
7. Astronomer	40	33	27	34	44	22	+33	+44	11
8. Auditor	16	33	49	11	45	44	+35	+45	10
9. Author of a novel	53	21	26	35	36	29	-85	-34	51*
10. Aviator (Pilot)	71	16	13	62	25	13	-55	-37	18**
11. Bank Clerk	5	23	72	2	18	80	+72	+80	8
12. Banker	13	29	58	7	35	58	0	0	0
13. Book-keeper	21	27	52	7	36	57	+6	+29	23*
14. Building Contractor	44	20	36	11	47	42	-92	+61	153*
15. Bus Conductor	9	23	68	9	18	73	0	0	0
16. Car driver	40	21	39	20	27	53	-41	+13	54*
17. Carpenter	23	33	44	22	29	49	0	0	0
18. Chemist	35	31	34	29	22	49	+3	+27	24*
19. Civil Engr.	40	44	16	33	42	25	+16	+25	9
20. College Professor	63	18	19	58	33	9	-1	+24	25*
21. Composer	14	35	51	14	35	51	0	0	0
22. Compounder	9	26	65	11	22	67	0	0	0
23. Crime Detective	47	23	30	44	27	29	0	0	0
24. Dentist	13	31	56	11	36	53	0	0	0
25. Elec. Engr.	69	23	8	62	29	9	0	0	0
26. Explorer	56	27	17	58	24	18	0	0	0
27. Factory Manager	82	10	8	87	7	6	0	0	0
28. Factory worker	54	20	26	44	33	23	-34	-11	23*
29. Farmer	26	37	37	47	35	18	-22	+58	80*
30. Film Director	44	30	26	31	31	38	-18	+7	25*

\* = .01 level of significance

\*\* = .05 level of significance

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the E.G.	Difference
	L	I	D	L	I	D			
31. Flutist	42	32	26	42	42	16	+6	+26	20*
32. Governor of State	41	30	29	35	38	27	+30	+38	8
33. Hotel-keeper	18	29	53	9	29	62	+35	+53	18*
34. Hotel-Manager	23	30	47	13	35	54	-23	-13	10
35. Inventor	75	16	9	76	18	6	0	0	0
36. Jeweller	6	31	63	7	47	46	-32	+1	33*
37. Jockey	20	23	57	20	24	56	0	0	0
38. Labour Officer	45	21	34	13	53	34	-72	+120	192*
39. Lawyer	24	21	55	29	27	44	-55	-44	11
40. Librarian	25	33	42	11	51	38	+41	+91	50*
41. Life Ins. Agent	12	30	58	-	27	73	+46	+73	27*
42. Locomotive Engr.	67	14	19	54	22	24	-53	-32	21*
43. Magazine Writer	47	28	25	45	35	20	0	0	0
44. Mechanic	52	23	23	42	38	20	-27	-4	23*
45. Mech. Engineer	76	15	9	96	4	-	+128	+188	60*
46. Musician	58	16	26	62	31	7	-36	+17	53*
47. Navy Officer	64	19	20	60	22	18	0	0	0
48. Newspaper Editor	32	30	38	24	49	27	-10	+47	57*
49. .do. Reporter	24	32	44	20	38	42	0	0	0
50. Office Clerk	5	21	74	2	18	80	0	0	0
51. Office Supdt.	33	37	28	27	44	29	-35	-27	8
52. Office Manager	36	21	23	36	42	22	-70	+12	82*
53. Optician	14	41	45	13	38	49	0	0	0
54. Painter	35	34	31	42	33	25	0	0	0
55. Photographer	56	25	19	67	24	9	+37	+58	21*
56. Physician	39	29	32	40	33	27	0	0	0
57. Post-Master	13	43	44	9	44	47	0	0	0
58. Post	40	36	24	42	29	29	0	0	0
59. Politician	21	19	60	15	29	56	+19	+29	10
60. Printer	5	41	54	9	44	47	0	0	0
61. Private Secretary	19	41	40	9	35	56	+21	+47	26*
62. Salesman	41	29	30	16	44	40	-23	+52	75*
63. Sales Manager	59	20	21	27	40	33	-116	+32	148*
64. School Teacher	41	25	34	36	36	28	+25	+36	11
65. Social Worker	57	21	22	40	31	29	-36	-9	27*
66. Statistician	30	35	35	22	42	36	-30	-22	8
67. Stenographer	12	29	59	11	33	56	0	0	0
68. Surgeon	33	27	40	29	40	31	-13	+9	22*
69. Surveyor	37	34	29	27	38	35	-37	-27	10
70. Typist	11	36	53	13	29	58	0	0	0
71. Violonist	43	23	34	33	47	20	-31	+41	72*
72. Watch Repairer	27	28	45	34	33	33	-45	-33	12
<b>TOTAL SCORE:</b>							<b>-728</b>	<b>+1061</b>	<b>1789</b>

\* = .01 level of significance; \*\* = .05 level of significance.

PART II - SCHOOL SUBJECTS

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the E.G.	Difference
	L	I	D	L	I	D			
73. Accountancy	19	41	40	18	42	40	0	0	0
74. Agriculture	48	38	14	44	42	14	0	0	0
75. Algebra	92	4	4	93	7	-	0	0	0
76. Arithmetic	87	4	9	87	6	7	0	0	0
77. Art	55	17	28	58	22	20	-28	-20	8
78. Engg. Subjects	87	8	5	76	7	17	-82	-59	23*
79. Botany	24	42	34	18	44	38	0	0	0
80. Chemistry	59	24	17	38	38	24	-94	-38	56*
81. Social Studies	51	26	23	29	42	29	-76	-16	60*
82. English Composition	52	26	22	40	44	16	0	+48	48*
83. Geography	52	27	21	33	44	23	-77	-22	55*
84. Geometry	80	14	6	71	24	5	-66	-47	19*
85. History	48	27	25	35	38	27	-21	+3	24*
86. Poetry	49	26	25	47	40	13	+1	+27	26*
87. Military Training	59	19	22	47	29	24	-40	-18	22*
88. Military drill	56	19	25	45	29	26	-37	-16	21*
89. Music	74	13	13	58	36	6	-48	+14	62*
90. Literature	58	27	15	53	38	9	+27	+38	11
91. Physics	84	9	7	89	9	2	0	0	0
92. Physiology	42	27	31	40	44	16	-4	+28	32*
93. Spelling	63	24	13	51	36	13	-39	-15	24*
94. Typewriting	42	35	23	27	49	24	-7	+22	29*
95. Zoology	30	33	37	20	47	33	+3	+27	24*
<b>TOTAL SCORE:</b>							<b>-588</b>	<b>-44</b>	<b>544</b>

PART III - ACTIVITIES

96. Arguments and discussions	82	9	9	74	13	13	-82	-74	8
97. Adjusting to others difficulties	77	21	2	76	13	11	-23	-24	1
98. Buying goods	79	16	5	69	27	4	-63	-42	21*
99. Bargaining	27	22	51	24	33	43	-29	-10	19*
100. Collecting rare coins	39	41	20	31	53	16	+2	+22	20*
101. Crime detection	52	30	18	44	38	18	-22	-6	16
102. Conversation with strangers	68	23	9	45	35	20	-104	-35	69*
103. Decorating flowers	62	25	13	54	44	2	-25	+32	57*
104. Doing research work	83	15	2	67	29	4	-68	-38	30*
105. Directing people	77	14	9	65	25	10	-63	-40	23*

\* = .01 level of significance; \*\* = .05 level of significance.

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the E.G.	Difference
	L	I	D	L	I	D			
106. Developing business	66	24	10	49	40	11	-42	-9	33*
107. Entertaining others	76	19	5	56	27	17	-128	-68	60*
108. Giving "First-Aid"	79	20	1	56	34	10	-137	-68	69*
109. Inventing new machines	82	16	2	80	18	2	0	0	0
110. Interviewing for jobs	80	15	5	71	25	4	-65	-46	19**
111. Living in the city	83	12	5	62	22	16	-149	-86	63*
112. Making a speech	42	31	27	34	33	33	-42	-34	8
113. Organizing a Drama	42	29	29	29	44	27	-13	+15	28*
114. Organizing Games	48	34	18	36	38	26	-30	-10	20**
115. Repairing clocks	45	27	28	53	29	18	+17	+35	18**
116. Repairing electrical things	69	22	9	60	27	13	-69	-60	9
117. Raising vegetables	62	25	13	69	27	4	-13	-4	9
118. Raising money for charity	52	26	22	24	58	18	-78	+102	180*
119. Regular hours of work	83	7	10	73	25	2	-79	-25	54*
120. Saving money	72	20	8	76	15	9	0	0	0
121. Scouting	52	34	14	33	49	18	-70	-17	53*
122. Treating patients	61	28	11	42	40	18	-94	-44	50*
123. Teaching children	68	23	9	69	27	4	0	0	0
124. Teaching adults	55	26	19	40	40	20	-29	0	29*
125. Writing personal letters	58	34	8	51	38	11	0	0	0
126. Writing newspaper reports	35	39	26	18	55	27	+4	+37	33*
127. Writing stories	29	45	26	25	53	22	+45	+53	8
<b>TOTAL SCORES:</b>							<b>-1450</b>	<b>-443</b>	<b>1007</b>

\* = .01 level of significance; \*\* = .05 level of significance.

PART IV - AMUSEMENTS

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the E.G.	Diff rence
	L	I	D	L	I	D			
128. Athletics	74	22	4	64	27	9	-74	-64	10
129. Amusement Park	64	31	5	60	33	7	0	0	0
130. Attending Dance parties	53	26	21	35	47	18	-54	+24	78*
131. Art Galleries	62	28	10	62	27	11	0	0	0
132. Badminton	64	28	8	60	31	9	0	0	0
133. Basketball	65	26	9	51	38	11	-39	-13	26*
134. Boxing	29	34	37	18	38	44	-29	-18	11
135. Carrom	67	20	13	62	29	9	+20	+29	9
136. Chess	63	20	17	71	24	5	+46	+66	20*
137. Cinema	78	19	3	84	16	-	0	0	0
138. Collecting Stamps	41	37	22	44	38	18	0	0	0
139. Cricket	73	19	8	53	24	23	-138	-83	55*
140. Crossword Puzzles	58	27	15	53	38	9	+27	+38	11
141. Detective stories	62	20	18	56	25	19	0	0	0
142. Draughts	57	24	19	45	42	13	-9	+39	48*
143. Driving automobiles	83	14	3	75	18	7	-83	-75	8
144. Excursions	94	5	1	93	4	3	0	0	0
145. Football	72	22	6	64	25	11	-72	-64	8
146. Fortune-telling	36	23	41	11	38	51	-8	+67	75*
147. Going for a walk alone	40	16	44	56	16	28	-4	+28	32*
148. Going to historic places	79	13	8	76	13	11	0	0	0
149. Gymnasium	55	32	13	44	34	22	-42	-22	20*
150. Hunting	36	37	27	29	36	35	+27	+35	8
151. Jig-saw puzzles	36	43	21	29	53	18	+7	+24	17*
152. Kabaddi	38	35	27	33	33	34	0	0	0
153. Magic	52	27	21	45	27	28	0	0	0
154. Museum	72	19	9	60	33	7	-53	-27	26*
155. Musical performances	78	14	8	73	22	5	+14	+22	8
156. Musical chairs	42	37	21	29	51	20	-5	+22	27*
157. Nature Study	59	26	15	53	31	16	0	0	0
158. Newspapers	87	7	6	73	25	2	-73	-23	50*
159. Novels	69	19	12	65	27	8	+19	+27	8
160. Picnic parties	85	9	6	85	9	6	0	0	0
161. Playing cards	59	17	24	51	29	20	-42	-22	20
162. Poetry	46	33	21	49	45	6	+12	+39	27*

\* = .01 level of significance; \*\* = .05 level of significance.

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the R.G.	Difference
	L	I	D	L	I	D			
163. Radio programmes	73	19	8	71	24	5	0	0	0
164. Smoking	23	17	60	20	20	60	0	0	0
165. Solving difficult problems	73	14	8	82	14	4	0	0	0
166. Sports	83	14	3	69	22	9	-69	-47	22*
167. Table-Tennis	62	27	11	79	16	5	+35	+63	28*
168. Walk with friends	89	5	6	78	20	2	-84	-58	26*
169. Tennis	62	30	8	64	27	9	0	0	0
170. Visiting Zoo	69	19	12	62	33	5	+19	+33	14
171. Volleyball	59	35	6	51	36	13	-59	-51	8
172. Wire-puzzles	45	40	15	31	49	20	-5	+18	23*
173. Word-building	63	24	13	49	35	16	-39	-14	25*
174. Wrestling	23	34	43	7	42	51	+54	+86	32*
<b>TOTAL SCORE:</b>							<b>-701</b>	<b>+79</b>	<b>780</b>

**PART V - PREFERENCE OF IDEAL PERSONALITIES**

175. Aristotle	59	33	8	60	33	7	0	0	0
176. Bertrand Russel	57	35	8	47	48	5	-22	+1	23*
177. Birla	42	39	19	34	44	22	-42	-34	8
178. Bismilla Khan	61	31	8	60	38	2	0	0	0
179. Buddha	79	16	5	69	22	9	-79	-69	10
180. Charles Dickens	70	27	3	69	31	-	0	0	0
181. Dharmendra/Actor	51	30	19	29	51	20	-42	+44	86*
182. Dilip Kumar	51	27	22	25	44	31	-53	+25	78*
183. Edward Jenner	59	40	1	42	51	7	-19	+9	28*
184. Einstein	78	20	2	87	9	4	+58	+78	20**
185. Elliot, T.S.	52	43	5	44	47	9	-52	-44	8
186. Euclid	64	27	9	51	42	7	-37	-9	28*
187. Galileo	88	10	2	82	14	4	0	0	0
188. George Stephenson	80	20	-	64	33	3	-60	-31	29*
189. James Watt	87	13	-	80	18	2	0	0	0
190. Kalidasa	88	9	3	73	20	7	-79	-53	26*
191. Kautilya	64	31	5	45	47	8	-97	-43	54*
192. Kirlokar	57	37	6	45	44	11	-57	-45	12
193. Krishnan, R. (Tennis-player)	72	24	4	58	34	8	-48	-24	24*
194. Lister	44	45	11	27	58	15	+1	+31	30*
195. Madan Mohan Malaviya	66	24	10	33	58	9	-126	+75	-201*

\* = .01 level of significance

\*\* = .05 level of significance

	Unemployed Graduates			Employed Graduates			Total score of the U.G.	Total score of the E.G.	Difference
	L	I	D	L	I	D			
196. Mahaveera	57	35	8	22	65	13	-66	+129	195*
197. Marconi	82	15	3	82	16	2	0	0	0
198. Montessorio	45	44	11	34	53	13	-1	+19	20*
199. Narayan, R.K.	77	17	6	56	38	6	-120	-36	84*
200. Nuthan (Actress)	47	27	26	40	44	16	+1	+28	27*
201. Nehru	71	13	16	76	16	8	-16	-8	8
202. Pasteur Louis	85	13	2	69	25	6	-72	-44	28*
203. Patodi	77	17	6	49	38	13	-197	-71	126*
204. Radhakrishnan	92	5	3	84	11	5	-92	-84	8
205. Ramakrishna Paramahansa	88	9	3	75	22	3	-79	-53	26*
206. Raman, C.V.	90	7	3	84	7	9	0	0	0
207. Ranjit Singh	59	29	12	36	49	15	-60	+26	86*
208. Rana Pratap	67	25	8	49	40	11	-109	-58	51*
209. Ravi Shankar	79	17	4	62	33	5	-62	-29	33*
210. Shankaracharya	80	17	3	56	31	13	-140	-68	72*
211. Saigal (Singer)	60	23	17	55	40	5	+6	+35	29*
212. Shivaji	78	19	3	84	11	5	-19	-11	8
213. Solars	83	14	3	45	42	13	-287	-41	246*
214. Subash Chandra Bose	88	11	1	87	9	4	0	0	0
215. Subbalakshai M.S.	78	16	6	71	22	7	0	0	0
216. Subba Rao (Justice)	58	33	9	40	49	11	-83	-31	52*
217. Tata	71	23	6	65	25	10	0	0	0
218. Tilak	84	14	2	76	16	8	-84	-76	8
219. Tagore	90	8	2	91	9	-	0	0	0
220. Visweswarayya (Industrialist)	97	3	-	95	4	1	0	0	0
221. Wells, H.G.	62	34	4	67	31	2	0	0	0
222. Zakir Hussain	54	24	22	45	36	19	-30	-9	21*
<b>TOTAL SCORES:</b>							<b>-2264</b>	<b>-471</b>	<b>1793</b>

\* = .01 level of significance  
 \*\* = .05 level of significance

APPENDIX C-6

Scores (in percentages) of unemployed and employed diploma-holders on Interest Inventory. (N: U.D. = 148; E.D. = 85).

PART I - OCCUPATIONS

	Unemployed diploma-holders			Employed diploma-holders			Total score of the U.D.	Total score of the E.D.	Difference
	L	I	D	L	I	D	U.D.	E.D.	
1. Accountant	24	47	29	17	41	42	+29	+42	13
2. Actor	20	34	46	31	34	35	-26	-4	22*
3. Advocate	16	30	54	12	41	47	+30	+41	11
4. Architect	68	17	15	43	32	25	-104	-29	75*
5. Army Officer	63	26	11	69	19	12	0	0	0
6. Artist	56	28	16	53	27	20	0	0	0
7. Astronomer	33	41	26	32	28	40	-15	+12	27*
8. Auditor	15	49	36	11	47	42	0	0	0
9. Author of novel	37	39	24	35	30	35	-15	+5	20*
10. Aviator (Pilot)	61	23	16	79	15	6	+83	+137	54*
11. Bank Clerk	21	37	42	12	28	60	+26	+80	54*
12. Banker	23	34	43	17	25	58	+9	+33	24*
13. Book-keeper	25	34	41	15	32	53	+16	+38	22*
14. Bldg. Contractor	54	26	20	23	46	31	-90	+54	144*
15. Bus Conductor	8	27	65	4	20	76	+65	+76	11
16. Car driver	31	26	43	15	28	57	+12	+42	30*
17. Carpenter	29	28	43	26	27	47	0	0	0
18. Chemist	28	42	30	26	50	24	+42	+50	8
19. Civil Engineer	60	25	15	35	34	31	-80	-5	75*
20. College Professor	45	29	26	50	28	22	0	0	0
21. Composer	14	43	43	18	36	46	0	0	0
22. Compounder	5	39	56	13	29	58	-34	-16	18*
23. Crime detective	39	27	34	35	33	32	0	0	0
24. Dentist	14	39	47	16	36	48	0	0	0
25. Elec. Engineer	35	35	10	66	19	15	+20	+47	27*
26. Explorer	22	44	34	29	35	36	-44	-35	9
27. Factory Manager	67	25	8	73	18	9	0	0	0
28. Factory worker	61	26	13	53	32	15	-61	-53	8
29. Farmer	51	34	15	56	26	18	-34	-26	8
30. Film Director	21	35	44	25	34	41	0	0	0
31. Flutist	28	41	31	31	29	40	-10	+11	21*
32. Governor of State	40	33	27	32	38	30	-40	-32	8

\* = .01 level of significance

\*\* = .05 level of significance

	Unemployed diploma-holders			Employed diploma-holders			Total score of the U.L.	Total score of the E.D.	Difference
	L	I	D	L	I	D			
33. Hotel-keeper	14	28	58	8	31	61	0	0	0
34. Hotel-Manager	22	31	47	16	27	57	+47	+57	10
35. Inventor	53	28	19	53	23	24	0	0	0
36. Jeweller	10	36	54	7	39	54	0	0	0
37. Jockey	11	21	68	12	19	69	0	0	0
38. Labour Officer	52	31	17	44	28	28	-35	-16	19*
39. Lawyer	28	34	38	24	29	47	+38	+47	9
40. Librarian	23	43	34	22	34	44	-9	+10	19*
41. Life Ins. Agent	19	32	49	5	35	60	+30	+55	25*
42. Locomotive Engr.	57	28	15	59	21	20	0	0	0
43. Magazine writer	32	41	27	29	35	36	+27	+36	9
44. Mechanic	64	26	10	47	35	18	-28	+6	34*
45. Mechanical Engr.	69	24	7	87	9	4	+114	+165	51*
46. Musician	41	38	21	46	32	22	0	0	0
47. Navy Officer	55	32	13	61	26	13	0	0	0
48. Newspaper Editor	23	43	34	21	40	39	0	0	0
49. .do. Reporter	20	35	35	19	40	41	0	0	0
50. Office Clerk	24	32	44	5	32	63	+40	+116	76*
51. Office Supdt.	42	38	20	58	25	17	+4	+33	29*
52. Office Manager	51	32	17	53	29	18	0	0	0
53. Optician	16	40	44	16	36	48	0	0	0
54. Painter	35	34	31	28	25	47	-3	+22	25*
55. Photographer	55	32	13	49	28	23	+13	+23	10
56. Physician	34	38	28	32	35	33	0	0	0
57. Post Master	25	36	39	18	36	46	0	0	0
58. Poet	32	30	38	29	28	43	0	0	0
59. Politician	20	28	52	18	22	60	+52	+60	8
60. Printer	15	42	43	15	40	45	0	0	0
61. Private Secretary	24	40	36	20	33	47	+36	+47	11
62. Salesman	41	33	26	33	34	33	-41	-33	8
63. Sales Manager	49	31	20	47	35	18	0	0	0
64. School Teacher	37	31	32	32	33	35	0	0	0
65. Social worker	57	28	15	51	29	20	0	0	0
66. Statistician	27	45	28	22	45	33	0	0	0
67. Stenographer	14	39	47	13	38	49	0	0	0
68. Surgeon	28	38	34	33	28	39	-38	-28	10
69. Surveyor	57	26	17	21	26	53	-120	+96	216*
70. Typist	23	39	38	9	38	53	+15	+44	29*
71. Violonist	18	45	37	29	19	52	-35	+43	78*
72. Watch repairer	30	30	40	34	31	35	0	0	0
<b>Total Score:</b>							<b>-114</b>	<b>+1251</b>	<b>1365</b>

\* = .01 level of significance

**PART II - SCHOOL SUBJECTS**

	Unemployed diploma-holders			Employed diploma-holders			Total score of the U.D.	Total score of the E.D.	Difference
	L	I	D	L	I	D			
73. Accountancy	23	41	31	17	34	49	+34	+81	47*
74. Agriculture	53	34	13	42	37	21	-40	-21	19*
75. Algebra	85	10	5	82	12	6	0	0	0
76. Arithmetic	83	12	5	80	12	8	0	0	0
77. Art	55	32	13	45	34	21	-42	-24	18*
78. Engg. subjects	87	9	4	61	20	19	-161	-123	38*
79. Botany	19	47	34	31	30	39	-28	+1	29*
80. Chemistry	42	37	21	35	32	33	+21	+33	12
81. Social Studies	49	39	12	38	33	29	-37	-9	28*
82. English Composition	47	39	14	46	31	23	-25	-8	17*
83. Geography	45	39	16	36	31	33	-68	-34	34*
84. Geometry	74	19	7	83	11	6	+55	+72	17*
85. History	47	34	19	39	34	27	-28	-12	16*
86. Poetry	40	34	26	36	37	27	0	0	0
87. Military	59	24	17	69	18	13	+59	+69	10
88. Military drill	63	25	12	69	18	13	0	0	0
89. Music	54	30	16	61	24	15	0	0	0
90. Literature	46	37	17	40	36	24	0	0	0
91. Physics	73	22	5	78	16	6	0	0	0
92. Physiology	37	39	24	39	41	20	0	0	0
93. Spelling	57	30	13	53	33	14	0	0	0
94. Typewriting	30	45	25	22	40	38	-5	+16	21*
95. Zoology	26	39	35	24	36	40	0	0	0
<b>Total scores:</b>							<b>-265</b>	<b>+41</b>	<b>306</b>

**PART III - ACTIVITIES**

96. Arguments and discussions	74	12	14	69	12	19	0	0	0
97. Adjusting to others difficulties	86	9	5	74	17	9	-77	-57	20*
98. Buying goods	76	21	3	70	18	12	+3	+12	9
99. Bargaining	18	32	50	15	26	59	+50	+59	9
100. Collecting rare coins	42	38	20	27	31	42	-2	+57	59*
101. Crime detection	37	31	32	28	40	32	-6	+12	18*
102. Conversation with strangers	52	22	26	39	26	35	-26	-4	22*
103. Decorating flowers	76	22	2	59	28	13	-74	-46	28*

\* = .01 level of significance

\*\* = .05 level of significance

	Unemployed diploma-holders			Employed diploma-holders			Total score of the U.D.	Total score of the E.D.	Difference
	L	I	D	L	I	D			
104. Doing research work	80	10	2	68	24	8	-166	-112	54*
105. Directing people	72	22	6	59	23	18	-66	-41	25*
106. Developing business	68	24	8	47	32	21	-104	-41	63*
107. Entertaining others	72	23	5	72	23	5	0	0	0
108. Giving "First-Aid"	85	14	1	73	21	6	-85	-73	12
109. Inventing new machines	76	21	3	73	24	3	0	0	0
110. Interviewing for jobs	68	26	6	64	23	13	0	0	0
111. Living in the city	69	19	12	63	18	19	0	0	0
112. Making a speech	33	43	24	42	25	33	-29	+25	54*
113. Organising a drama	33	33	32	29	28	43	+32	+43	11
114. Organising games	60	25	13	44	28	28	-45	-16	29*
115. Repairing clocks	42	40	18	51	28	21	+2	+23	21*
116. Repairing electrical things	62	27	11	65	14	21	-16	+7	23*
117. Raising vegetables	76	20	4	67	27	6	-76	-67	9
118. Raising money for charity	48	37	15	38	34	28	-33	-10	23*
119. Regular hours for work	93	5	2	85	9	6	-93	-85	8
120. Saving money	85	12	3	71	21	8	-73	-50	23*
121. Scouting	45	42	13	41	36	23	+13	+23	10
122. Treating patients	68	27	5	60	38	2	-41	-22	19*
123. Teaching children	78	19	3	68	18	14	-75	-54	21*
124. Teaching adults	47	34	19	35	42	23	-13	+7	20*
125. Writing personal letters	58	30	12	36	38	26	-74	-8	66*
126. Writing newspaper reports	30	40	30	24	40	36	0	0	0
127. Writing stories	34	36	30	29	38	33	0	0	0
<b>Total Score:</b>							<b>-1074</b>	<b>-418</b>	<b>656</b>

\* = .01 level of significance

**PART IV - AMUSEMENTS**

	Unemployed diploma-holders			Employed diploma-holders			Total score of the U.D.	Total score of the E.D.	Difference
	L	I	D	L	I	D			
128. Athletics	70	22	8	67	24	9	0	0	0
129. Amusement Park	58	37	5	44	33	23	-48	+2	50*
130. Attending dance parties	45	29	26	41	35	24	0	0	0
131. Art galleries	62	27	11	54	31	15	-62	-54	8
132. Badminton	67	20	13	56	26	18	-67	-56	11
133. Basketball	66	22	12	49	30	21	-32	+2	34*
134. Boxing	30	36	34	25	30	45	+34	+45	11
135. Carron	63	24	13	53	24	23	-50	-30	20*
136. Chess	58	28	14	61	27	12	0	0	0
137. Cinema	76	18	6	71	19	10	0	0	0
138. Collecting Stamps	47	33	20	40	25	35	-13	+10	23*
139. Cricket	75	18	7	69	17	14	0	0	0
140. Crossword puzzles	37	36	27	40	39	21	0	0	0
141. Detective stories	51	29	20	46	27	27	0	0	0
142. Draughts	57	35	8	62	20	18	-27	-2	25*
143. Driving automobiles	75	15	10	78	16	6	0	0	0
144. Excursions	76	21	3	75	21	4	0	0	0
145. Football	69	23	8	59	23	18	-61	-41	20*
146. Fortune-telling	37	33	30	24	40	36	-37	-24	13
147. Going for a walk alone	55	19	26	47	24	29	-55	-47	8
148. Going to historic places	92	5	3	85	9	6	0	0	0
149. Gymnasium	55	32	13	56	22	22	-32	-22	10
150. Hunting	41	30	29	35	20	45	-1	+25	26*
151. Jig-saw puzzles	24	45	31	14	44	42	+7	+28	21*
152. Kabaddi	54	24	22	41	31	28	-54	-41	13
153. Magic	46	32	22	39	26	35	+22	+35	13
154. Museums	78	18	4	69	18	13	-74	-56	18*
155. Musical performances	68	24	8	67	20	13	0	0	0
156. Musical chairs	49	34	17	26	36	38	-64	+24	88*
157. Nature study	72	22	6	48	29	23	-138	-73	65*
158. Newspapers	85	13	2	80	13	7	0	0	0
159. Novels	73	18	9	59	27	14	-55	-32	23*
160. Picnic parties	81	17	2	78	19	3	0	0	0

\* = .01 level of significance

	Unemployed diploma-holders			Employed diploma-holders			Total score of the	Total score of the	Difference
	L	I	D	L	I	D	U.D.	E.D.	
161. Playing cards	35	26	39	44	19	37	+35	+44	9
162. Poetry	38	40	22	42	28	30	-18	+2	20*
163. Radio programmes	77	17	6	66	22	12	-77	-66	11
164. Smoking	18	18	64	26	22	52	-46	-26	20*
165. Solving difficult problems	80	19	1	73	22	5	0	0	0
166. Sports	83	14	3	73	20	7	-83	-73	10
167. Table-tennis	60	28	12	60	29	11	0	0	0
168. Walk with friends	86	11	3	80	13	7	0	0	0
169. Tennis	51	35	14	48	37	15	0	0	0
170. Visiting Zoo	80	16	4	72	25	3	-64	-47	17**
171. Volley-ball	65	24	11	51	35	14	-41	-16	25*
172. Wire-puzzles	35	43	22	26	48	26	-35	-26	9
173. Words-building	64	24	12	53	29	18	-64	-53	11
174. Wrestling	28	30	42	26	35	39	0	0	0
<b>Total Scores:</b>							<b>-1200</b>	<b>-568</b>	<b>632</b>

**PART V - PREFERENCE OF IDEAL PERSONALITIES**

175. Aristotle	53	33	14	54	38	8	0	0	0
176. Bertrand Russell	36	47	17	49	41	10	+36	+49	13
177. Birla	43	37	20	36	31	33	+20	+33	13
178. Bismilla Khan	49	31	20	53	34	13	0	0	0
179. Buddha	83	10	2	82	18	-	+10	+18	8
180. Charles Dickens	53	35	10	64	29	7	+55	+64	9
181. Dharmendra/Actor	44	40	16	40	33	27	+16	+27	11
182. Dilip Kumar	45	36	19	33	32	35	-26	+2	28*
183. Edward Jenner	54	35	11	44	49	7	-19	+5	24*
184. Einstein	53	39	8	61	35	4	+53	+61	8
185. Elliot, T.S.	30	57	13	48	46	6	+3	+50	47*
186. Euclid	29	60	11	39	55	6	+29	+39	10
187. Galileo	82	16	2	76	24	-	+16	+24	8
188. George Stephenson	79	20	2	66	34	-	-58	-32	26*
189. James Watt	89	11	-	85	14	1	0	0	0
190. Kalidasa	86	14	-	76	24	-	-72	-52	20*
191. Kautilya	60	36	4	43	45	12	-20	+14	34*
192. Kirloskar	60	32	8	45	39	16	-52	-29	23*
193. Krishnan, R. (Tennis-player)	72	26	2	58	35	7	-46	-23	23*

\* = .01 level of significance

\*\* = .05 level of significance

	Unemployed diploma-holders			Employed diploma-holders			Total score of the U.D.	Total score of the E.D.	Difference
	L	I	D	L	I	D			
194. Lister	32	52	16	39	49	12	0	0	0
195. Madan Mohan Malaviya	67	30	3	52	35	13	-64	-39	25*
196. Mahaveera	72	26	2	52	45	3	-92	-14	78*
197. Marconi	62	14	4	79	10	11	0	0	0
198. Montessorie	49	42	9	43	52	5	+42	+52	10
199. Narayan, R.K.	61	33	6	58	35	7	0	0	0
200. Nutan/Actress	45	35	22	45	29	26	0	0	0
201. Nehru	87	11	2	75	24	1	-76	-51	25*
202. Pasteur Louis	78	18	4	62	38	-	-42	+14	56*
203. Pataudi	75	21	4	68	24	8	0	0	0
204. Radhakrishnan	93	2	-	92	8	-	0	0	0
205. Ramakrishna Paramahansa	97	3	-	84	14	2	-94	-70	24*
206. Ramon, C.V.	95	5	-	88	9	3	0	0	0
207. Ranjit Singh	62	30	8	51	40	9	-32	-11	21*
208. Rana Pratap	71	23	6	55	36	9	-48	-19	29*
209. Ravi Shankar	61	28	11	54	41	5	+28	+41	13
210. Shankaracharya	82	16	2	79	16	5	0	0	0
211. Saigal/Singer	55	38	7	53	41	6	0	0	0
212. Shivaji	79	19	2	79	20	1	0	0	0
213. Sobers	70	24	6	76	20	4	0	0	0
214. Subash Chandra Boss	93	7	-	94	5	1	0	0	0
215. Subbalakshmi M.S.	78	18	4	75	21	4	0	0	0
216. Subba Rao (Justice)	61	32	7	60	35	5	0	0	0
217. Tata	65	26	9	66	26	8	0	0	0
218. Tilak	80	20	-	72	26	2	-80	-72	8
219. Tagore	94	3	1	94	6	-	0	0	0
220. Visveswarayya (Industrialist)	97	2	1	87	13	-	-95	-74	21*
221. Wells, H.G.	53	36	11	54	44	2	+25	+42	17*
222. Zakir Hussain	64	23	13	53	41	6	-41	-12	29*
<b>Total Scores</b>							<b>-624</b>	<b>+37</b>	<b>661</b>

\* = .01 level of significance

\*\* = .05 level of significance

APPENDIX - D

LIST OF TABLES

1. Frequency distribution of various groups on progressive matrices test.
2. Frequency distribution of various groups on mechanical reasoning test.
3. Frequency distribution of various groups on space relations test.
4. Frequency distribution of various groups on Neuroticism scores.
5. Frequency distribution of various groups on Extroversion scores.
6. Frequency distribution of various groups on Introversion scores.
7. Odd-even scores of students on personality inventory.

APPENDIX D-1

The frequency distribution of various groups on progressive matrices test.

---

Class Intervals	U.G.	K.G.	U.I.	K.D.
Scores				
56 - 60	5	4	2	2
51 - 55	24	19	6	7
46 - 50	31	10	20	23
41 - 45	12	16	36	24
36 - 40	15	4	30	13
31 - 35	2	1	24	7
26 - 30	3	0	0	5
21 - 25	0	1	5	1
16 - 20	1	0	7	1
11 - 15	1	0	8	2
6 - 10	1	0	2	0
	95	55	148	85

---

APPENDIX D-2

The frequency distribution of the various groups on mechanical reasoning test.

---

Class Intervals	U.G.	R.G.	U.T.	R.P.
Scores				
61 - 65	0	1	0	0
56 - 60	1	2	0	0
51 - 55	0	3	0	0
46 - 50	7	6	1	2
41 - 45	11	8	2	4
36 - 40	9	11	6	3
31 - 35	21	12	15	17
26 - 30	19	4	19	15
21 - 25	14	3	29	16
16 - 20	4	5	30	15
11 - 15	5	0	22	6
6 - 10	2	0	16	6
1 - 5	2	0	8	1
	95	55	148	85

APPENDIX D-3

The frequency distribution of the various groups on space relations test.

---

Class Intervals	U.G.	E.G.	U.D.	E.D.
Scores				
86 - 90	0	1	0	0
81 - 85	0	0	0	0
76 - 80	0	0	0	1
71 - 75	2	2	2	0
66 - 70	2	2	1	2
61 - 65	4	5	3	5
56 - 60	5	5	3	3
51 - 55	2	3	6	5
46 - 50	12	10	9	6
41 - 45	13	8	4	7
36 - 40	9	4	7	6
31 - 35	9	4	7	10
26 - 30	7	4	14	5
21 - 25	8	2	10	5
16 - 20	6	2	12	14
11 - 15	6	2	20	3
6 - 10	6	1	25	8
1 - 5	4	0	18	5
- 4 to 0	0	0	4	0
- 9 to -5	0	0	3	0
	95	55	148	85

APPENDIX D-4

The frequency distribution of the various groups on Neuroticism.

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---

Scores	U.G.	E.G.	U.P.	N.P.
16	0	0	0	1
15	0	0	0	0
14	1	0	3	1
13	1	0	1	0
12	0	0	6	2
11	2	2	11	5
10	5	1	13	4
9	1	2	20	8
8	7	5	23	9
7	8	5	19	19
6	15	5	22	9
5	17	8	10	15
4	15	9	10	6
3	11	9	6	4
2	5	8	4	2
1	7	1	0	0
	95	55	143	85

---

APPENDIX D-5

The frequency distribution of the various groups on extroversion scores.

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---

Scores	U.G.	E.C.	U.D.	E.I.
10	0	1	3	2
9	7	1	10	6
8	18	6	20	14
7	20	11	43	17
6	27	14	34	19
5	14	10	19	12
4	6	7	12	7
3	2	5	5	5
2	1	0	1	1
1	0	0	1	2
	95	55	148	85

---

APPENDIX D-6

The frequency distribution of the various groups on introversion scores.

---

---

Scores	U.G.	F.G.	U.D.	S.D.
10	0	0	1	0
9	0	0	0	0
8	0	0	3	1
7	0	0	3	4
6	2	2	2	3
5	8	7	13	11
4	26	15	36	20
3	29	17	47	20
2	16	9	29	19
1	13	4	11	7
0	1	1	3	0
	95	55	148	85

---

APPENDIX D-7

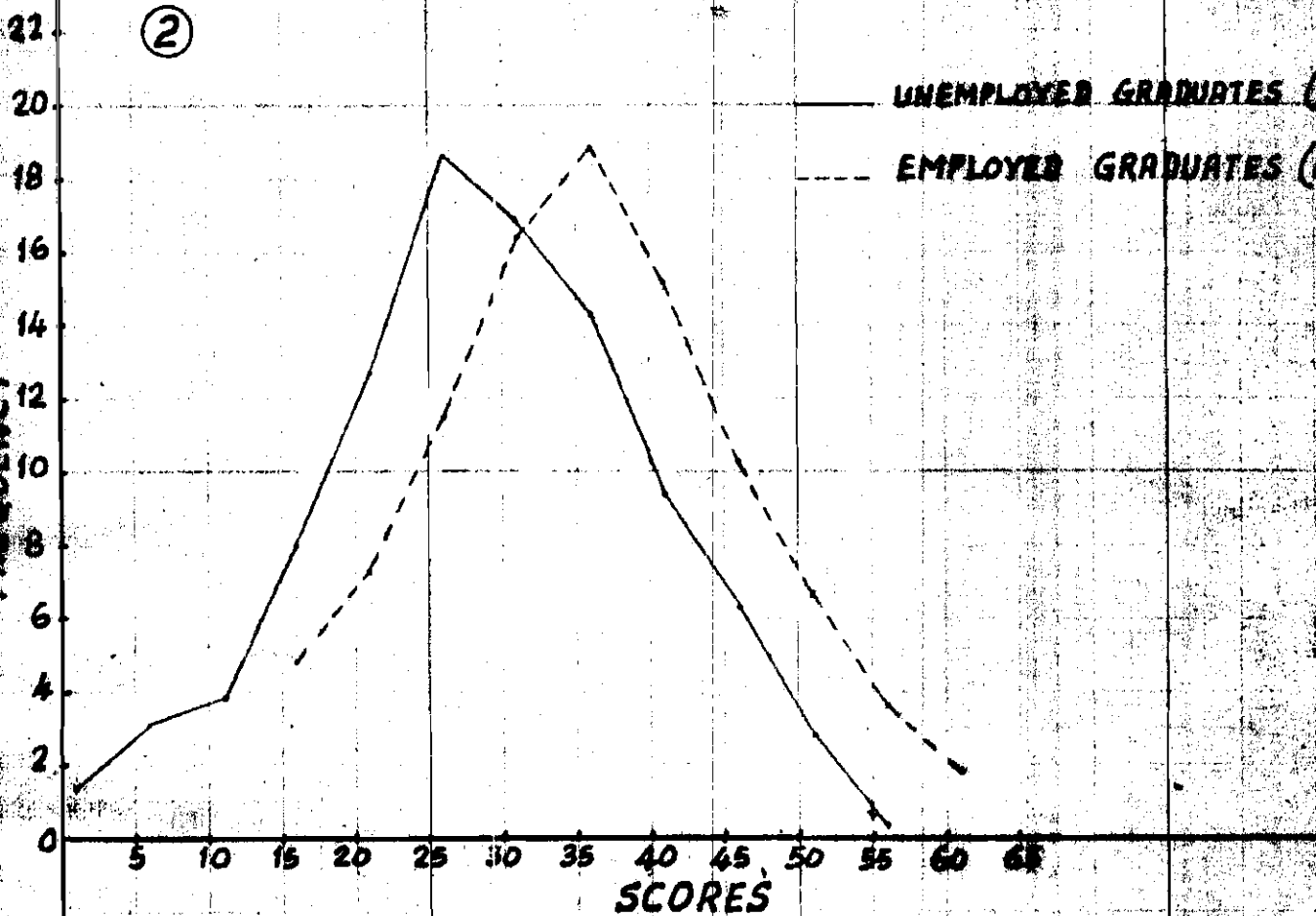
ODD-EVEN scores of students on personality inventory (N-55)

	NEUROTICISM		EXTROVERSION		INTROVERSION	
	Odd	Even	Odd	Even	Odd	Even
1.	3	3	3	4	1	2
2.	2	2	5	4	2	3
3.	2	5	2	1	2	2
4.	3	2	2	1	2	2
5.	1	1	3	3	-	-
6.	1	3	3	2	2	1
7.	3	4	3	3	2	2
8.	3	4	2	2	3	2
9.	1	1	2	3	2	1
10.	4	5	4	4	1	1
11.	3	2	2	2	1	3
12.	3	1	3	4	2	-
13.	2	1	4	4	2	1
14.	1	1	3	3	1	2
15.	4	2	3	3	2	2
16.	2	1	3	4	2	1
17.	1	3	4	3	2	2
18.	4	5	2	3	2	2
19.	2	5	3	-	3	2
20.	1	2	4	4	2	2
21.	2	3	4	2	1	-
22.	3	3	3	4	3	2
23.	3	2	4	3	2	1
24.	4	4	2	2	2	2
25.	-	2	3	2	1	2
26.	3	4	3	3	2	2
27.	1	4	4	3	-	2
28.	3	1	2	2	1	1
29.	2	2	4	4	2	1
30.	1	2	3	4	1	-
31.	1	3	2	3	2	3
32.	2	1	3	5	1	1
33.	3	3	1	2	2	2
34.	4	6	2	4	2	3
35.	1	2	4	2	1	1
36.	6	5	4	3	3	2
37.	2	1	2	2	2	2
38.	4	2	4	2	2	1
39.	6	5	4	3	-	1
40.	3	2	3	3	1	2

	NEUROTICISM		EXTROVERSION		INTROVERSION	
	Odd	Even	Odd	Even	Odd	Even
41.	1	4	4	3	2	1
42.	3	4	4	3	2	-
43.	4	4	3	3	1	1
44.	-	2	4	1	1	1
45.	1	1	5	5	-	1
46.	2	3	2	1	3	3
47.	2	2	3	3	1	3
48.	-	1	3	2	2	1
49.	1	2	2	2	2	4
50.	1	5	2	3	2	1
51.	4	4	2	4	2	2
52.	-	4	2	2	1	2
53.	1	1	3	5	2	1
54.	1	1	3	2	1	2
55.	2	1	2	3	2	2
	123	152	165	156	91	89
Mean	2.24	2.76	3.00	2.84	1.65	1.62
S.D.	1.39	1.50	0.87	1.06	0.74	0.86

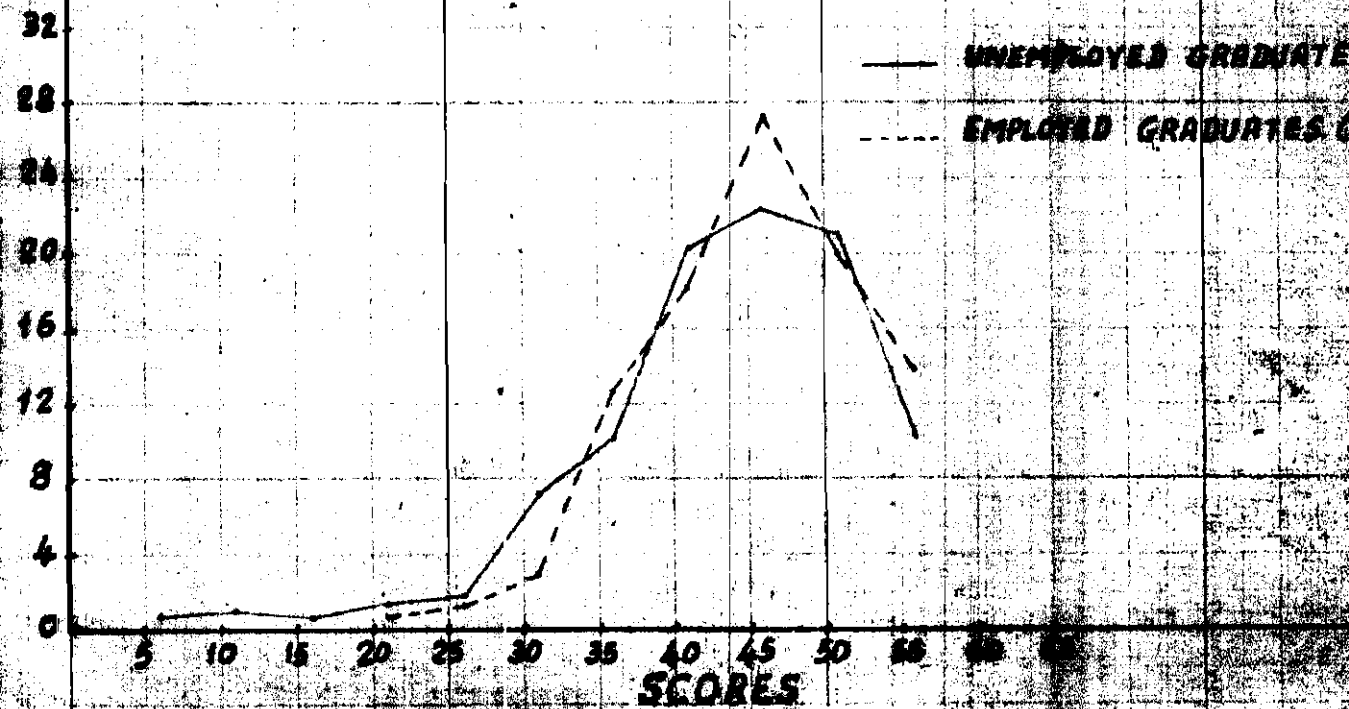
**DISTRIBUTION OF SCORES ON MECHANICAL REASONING OF UNEMPLOYED AND EMPLOYED GRADUATES.**

②



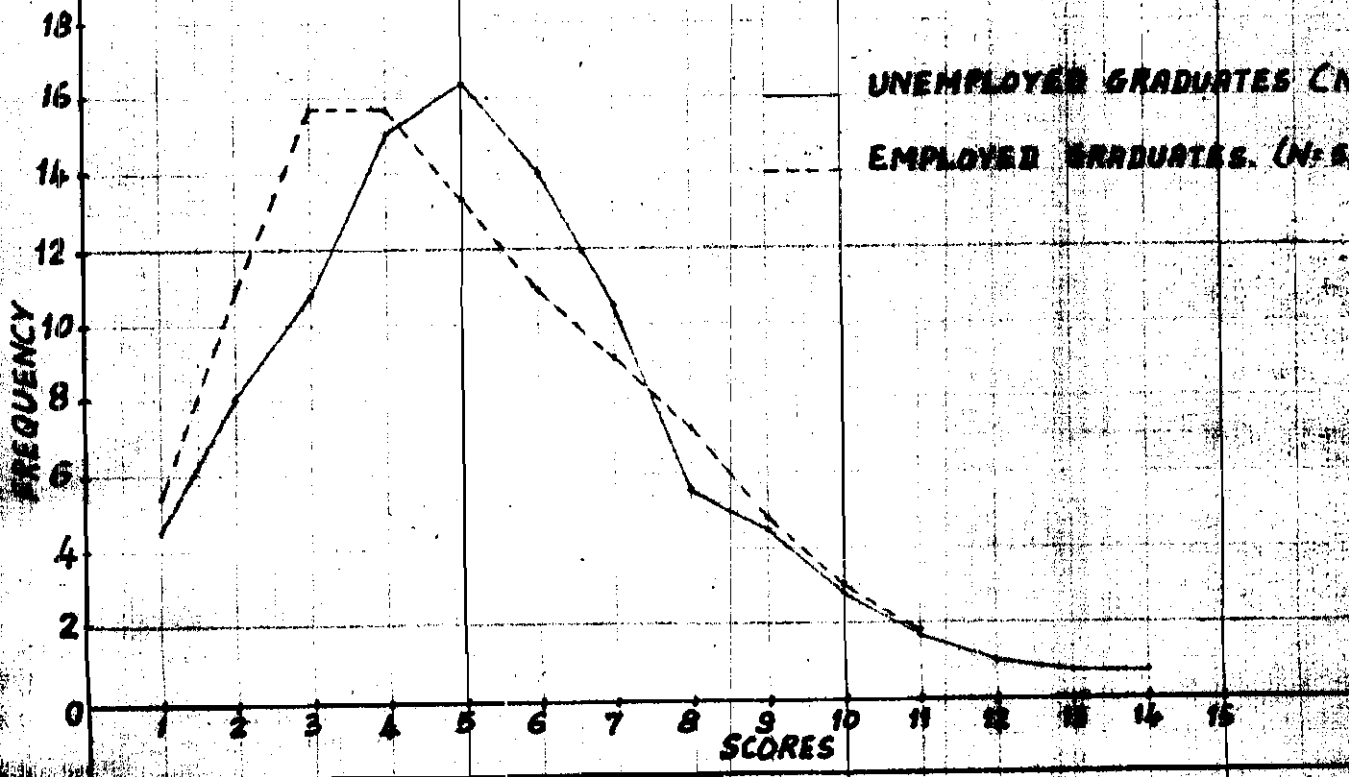
**DISTRIBUTION OF SCORES ON PROGRESSIVE MATRICES OF UNEMPLOYED AND EMPLOYED GRADUATES**

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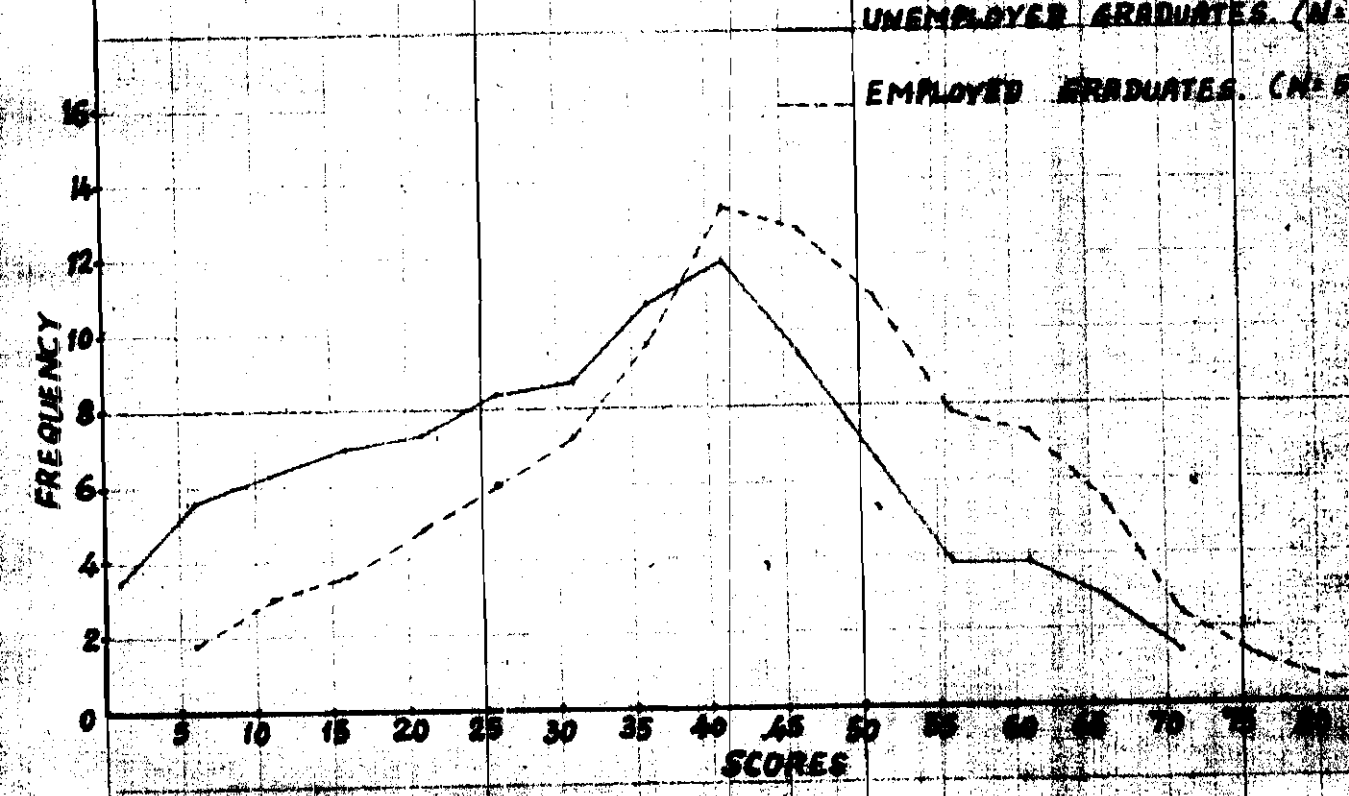
**DISTRIBUTION OF SCORES ON NEURTICISM  
OF UNEMPLOYED GRADUATES AND EMPLOYED GRADUATES**

④



**DISTRIBUTION OF SCORES ON SPACE RELATIONS TEST  
OF UNEMPLOYED AND EMPLOYED GRADUATES.**

③

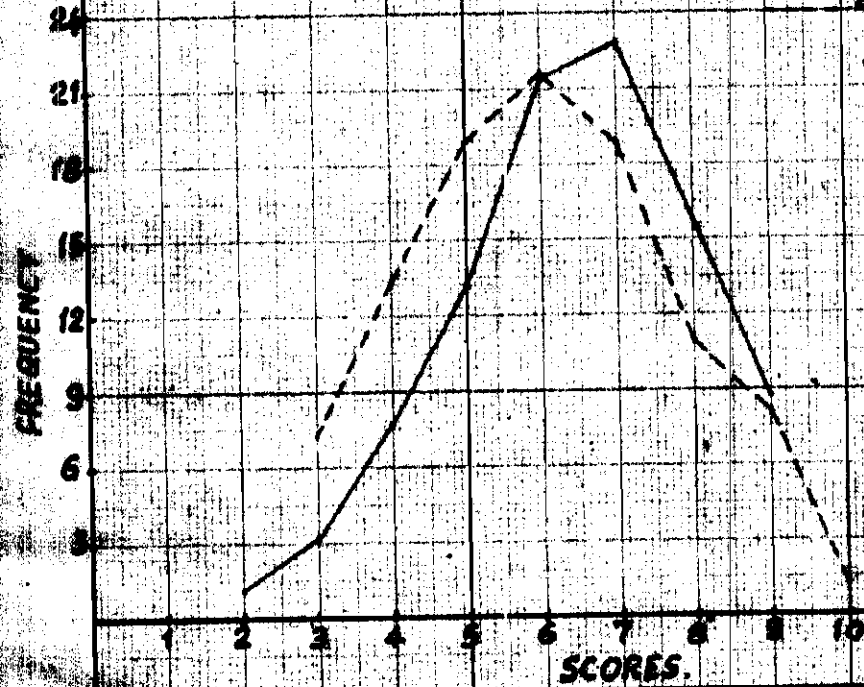


**DISTRIBUTION OF SCORES ON EXTENSION  
OF UNEMPLOYED AND EMPLOYED GRADUATES.**

⑥

UNEMPLOYED GRADUATES (---)

EMPLOYED GRADUATES (—)

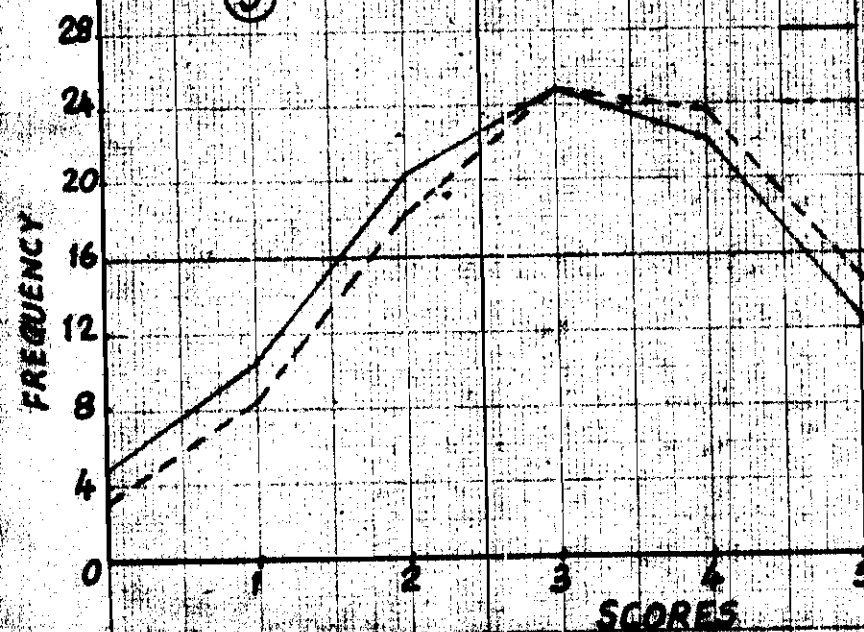


**DISTRIBUTION OF SCORES ON INTERVIEWING  
OF UNEMPLOYED AND EMPLOYED GRADUATES.**

⑤

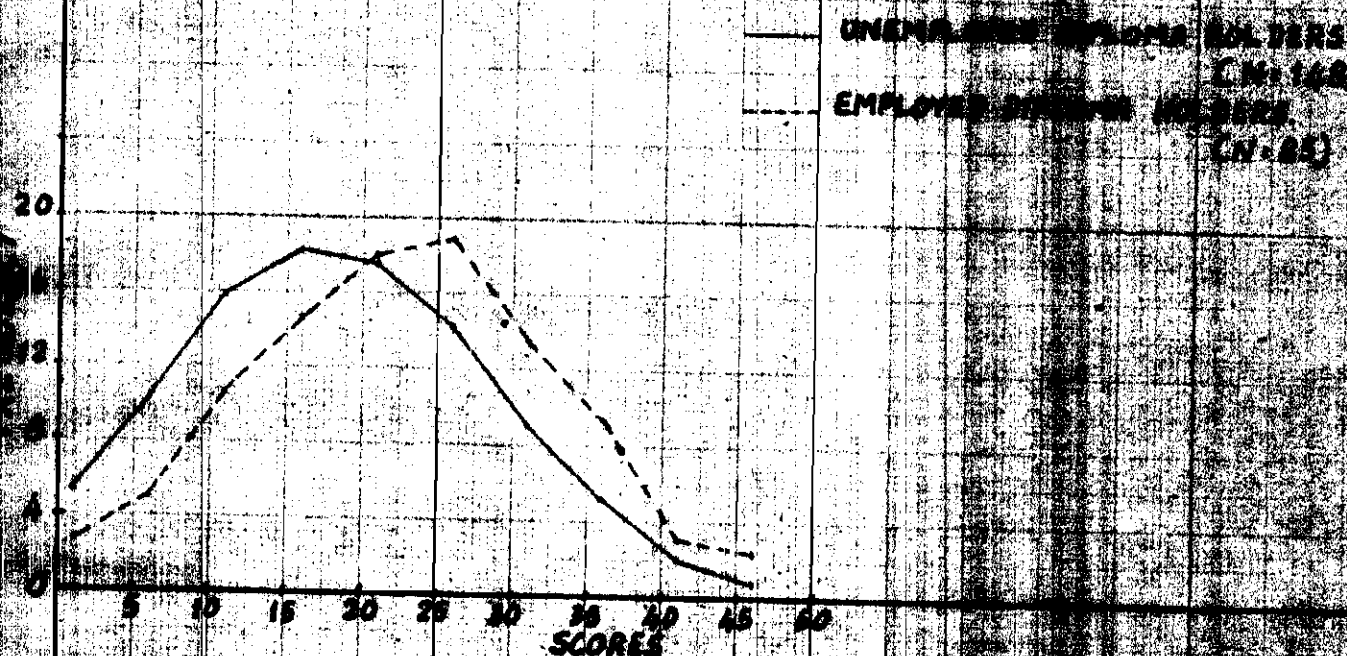
UNEMPLOYED GRADUATES (---)

EMPLOYED GRADUATES (—)



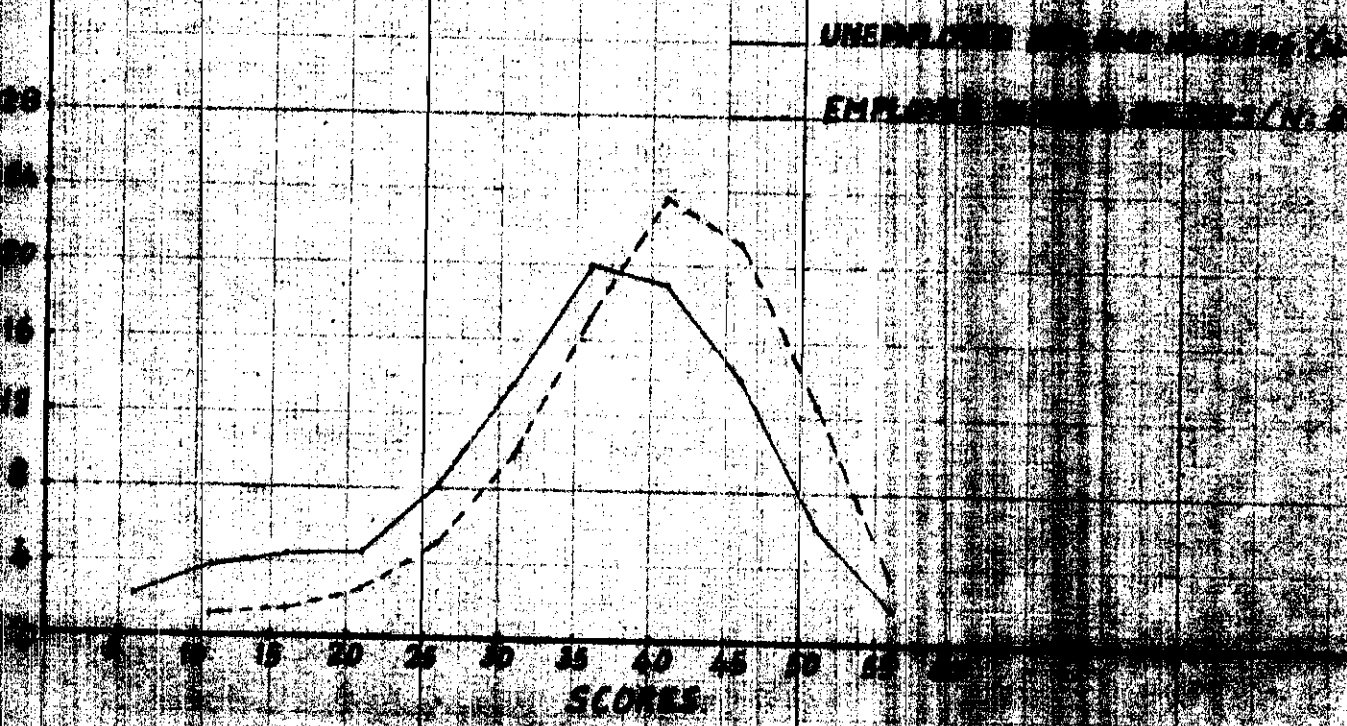
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DISTRIBUTION OF SCORES ON MECHANICAL REASONING  
OF UNEMPLOYED AND EMPLOYED POLICE OFFICERS



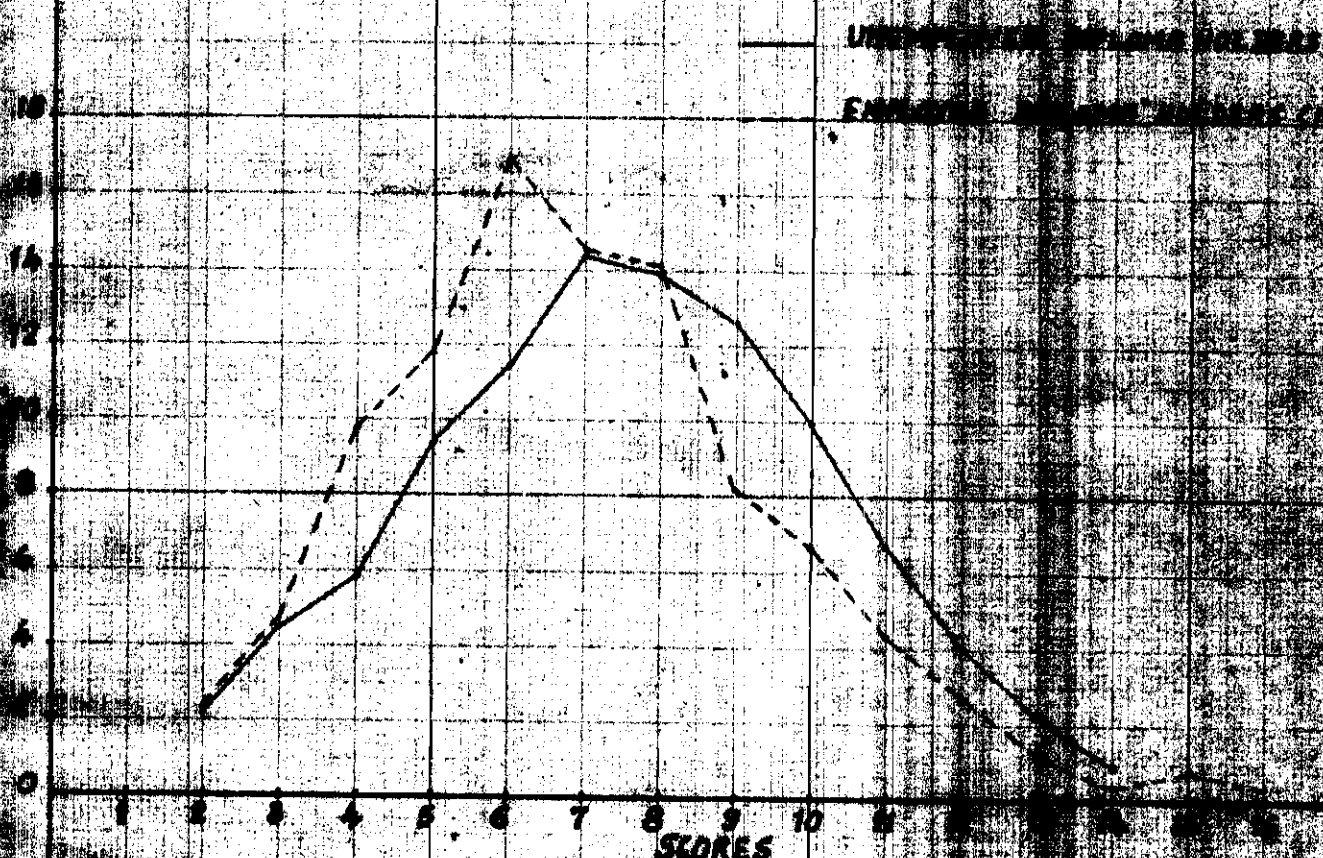
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DISTRIBUTION OF SCORES ON PROGRESSIVE MATHEMATICS TEST  
OF UNEMPLOYED AND EMPLOYED POLICE OFFICERS



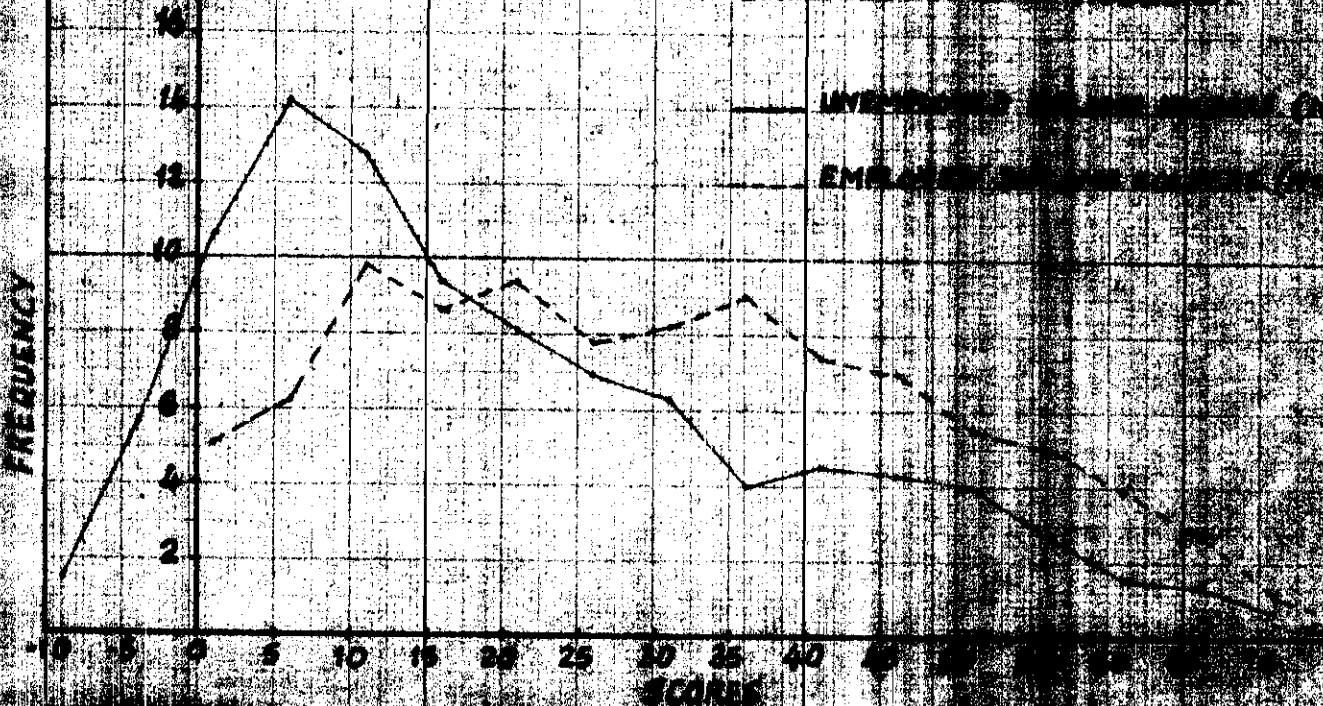
**DISTRIBUTION OF SCORES ON NEURONAL TEST OF UNEMPLOYED AND EMPLOYED SUBJECTS**

⑩

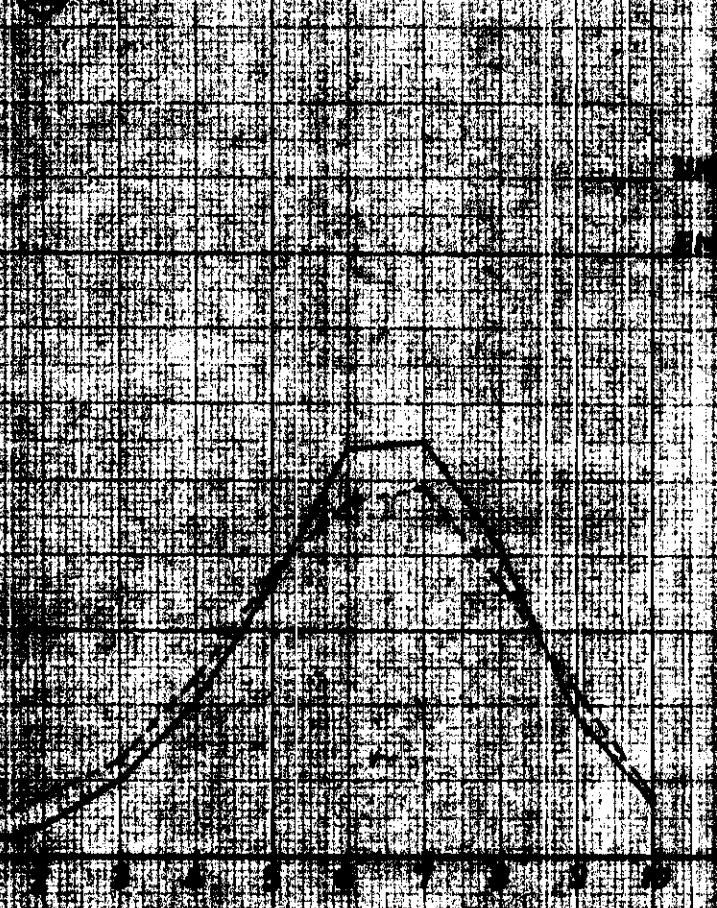


**DISTRIBUTION OF SCORES ON APTITUDE TEST OF UNEMPLOYED AND EMPLOYED SUBJECTS**

⑨



**DISTRIBUTION OF WEIGHTS IN  
OF IMPROVED FIBRE**



**DISTRIBUTION OF WEIGHTS IN  
OF IMPROVED FIBRE**

