

A study on the survey for actual condition of local junior college graduates in Japan

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Abstract

In this study, the following three things became clear by analyzing the results of a survey conducted among the graduates of a Junior College in Japan. Firstly, there is a difference between students who ask for advice from teachers and students who do not. It was found that the former students have a higher expectation for the college and higher motivation. This result shows us that going to professors for advice gives students good effects improved on their school lives. Secondly, there is a difference between students who have any achieved certificates and students who do not. It was found that the former students think to keep pursue learning even after graduation. It is considered that those students are strongly aware of the necessity to pursue their future careers or the importance of learning by pursuing certificates. Thirdly, the method of entrance to the university does not make any difference to students. Perhaps this means the students who pursue their careers gain satisfaction from their school lives, and can keep learning after graduation.

Keywords: Graduate Research; Institutional Research; Counseling; Certification

1 Introduction

Recently, many universities in Japan have established IR (Institutional Research) departments. This movement began in United States universities. Institutional Research is research conducted within an institution of higher education to provide information that supports institutional planning, policy formation and decision making [1]. An Institutional Research survey was conducted in Japan. In this survey, learning evaluation is classified into two ways. There are direct measures and indirect measures. Direct measures are such things as examination, report, graduation thesis. Indirect measures are questionnaire, interview etc. Student survey is an indirect measurement [2].

2 Purpose and method

As the background of the survey, information disclosure of the University is required. A graduate survey has been conducted as a student survey. So, I proposed planning a college students graduate survey.

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The study was carried out at the local junior college (X junior college) as follows. There are three programs in the junior college: school nurse, nutritionist, nursery and kindergarten teacher.

Date: 2013/2/15 Object: junior college sophomore (graduates)

Number: 121 people Survey method: questionnaire survey

I referred to the question items for junior college students that Kawamata has created[3].

Question items are “college-going motivation”, “expectation for the university”, “tuition and living expenses”, “certification”, “effect of learning”, “program after graduation”, “the need to learn after graduation”, “participation in events”.

Figure1 shows the survey range in this study. I analyzed college students and reported to management. But I didn't act to education, administration, or social activity departments.

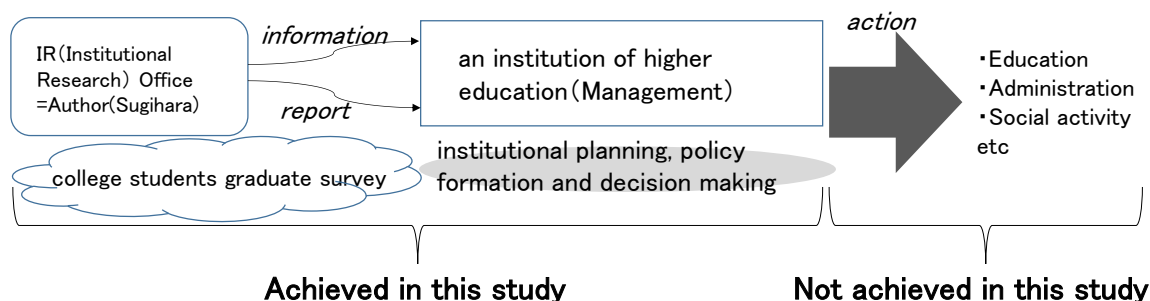


Figure1.the study range

I analyzed the three programs (school nurse program, nutritionist program, nursery and kindergarten teacher program) of X junior college.

The results of the analysis are described in Tables 1,2,3,4. There were some differences in college-going motivation and satisfaction. Table 1 shows the analysis of college-going motivation. So, Major is high in all programs (about 70%). But for passing certifications, and recommendation of high school teacher, the nutritionist program and the nursery and kindergarten teacher program are higher than school nurse program. Tables 2,3, and 4 show university satisfaction (Table3: Lesson, Table4: Teacher). For Table2.3.4, nutritionist program and nursery and kindergarten teacher program have higher satisfaction than the school nurse program. One probable cause of this result may be taking the certification exam. Most of the students (nutritionist program and nursery and kindergarten teacher program) take the certification. But it is difficult to achieve the school nurse certification, so only half the students take this certification exam. And there are students who do not have the goal of taking the certification. In addition, I considered the following Research Questions.

Table1. Why did you go to university?

	Q5 Why did you go to university? (plural marking)	school nurse program		nutritionist program		nursery and kindergarten teacher program		total	
		number	percentage	number	percentage	number	percentage	number	percentage
1	There was a major I wanted to learn	18	76.2%	27	71.1%	46	74.2%	89	73.6%
2	take certifications	9	42.9%	29	76.3%	41	66.1%	79	65.3%
3	finding employment	3	14.3%	4	10.5%	13	21.0%	20	16.5%
4	school spirit	3	14.3%	4	10.5%	6	9.7%	13	10.7%
5	attending school	5	23.8%	8	21.1%	16	25.8%	29	24.0%
6	recommendation of high school teacher	1	4.8%	5	13.2%	16	25.8%	22	18.2%
7	recommendation of parent	3	14.3%	3	7.9%	6	9.7%	12	9.9%
8	recommendation of friends	0	0.0%	0	0.0%	3	4.8%	3	2.5%
9	academic achievement	3	14.3%	4	10.5%	5	8.1%	12	9.9%
10	economic reasons	2	9.5%	4	10.5%	1	1.6%	7	5.8%
11	I did not go to the school I want to go to	1	4.8%	4	10.5%	2	3.2%	7	5.8%
12	education philosophy	1	4.8%	0	0.0%	1	1.6%	2	1.7%
13	others	2	9.5%	0	0.0%	0	0.0%	2	1.7%

Table2. How well were you satisfied? (University)

	Q7 How long did you satisfied? (University)	school nurse program		nutritionist program		nursery and kindergarten teacher program		total	
		number	percentage	number	percentage	number	percentage	number	percentage
5	Very satisfied	1	4.8%	4	10.5%	15	24.2%	20	16.5%
4	Quite a satisfied	6	28.6%	16	42.1%	32	51.6%	54	44.6%
3	ordinary	10	47.6%	17	44.7%	14	22.6%	41	33.9%
2	Little satisfied	3	14.3%	1	2.6%	0	0.0%	4	3.3%
1	Never satisfied	1	4.8%	0	0.0%	1	1.6%	2	1.7%
	total	21	100.0%	38	100.0%	62	100.0%	121	100.0%

Table3. How well were you satisfied? (Lesson)

	Q7 How long did you satisfied? (Lesson)	school nurse program		nutritionist program		nursery and kindergarten teacher program		total	
		number	percentage	number	percentage	number	percentage	number	percentage
5	Very satisfied	2	9.5%	6	15.8%	19	30.6%	27	22.3%
4	Quite a satisfied	8	38.1%	20	52.6%	32	51.6%	60	49.6%
3	ordinary	8	38.1%	12	31.6%	10	16.1%	30	24.8%
2	Little satisfied	2	9.5%	0	0.0%	1	1.6%	3	2.5%
1	Never satisfied	1	4.8%	0	0.0%	0	0.0%	1	0.8%
	total	21	100.0%	38	100.0%	62	100.0%	121	100.0%

Table4. How well were you satisfied? (Teacher)

	Q7 How long did you satisfied? (Teacher)	school nurse program		nutritionist program		nursery and kindergarten teacher program		total	
		number	percentage	number	percentage	number	percentage	number	percentage
5	Very satisfied	4	19.0%	21	55.3%	24	38.7%	49	40.5%
4	Quite a satisfied	9	42.9%	9	23.7%	31	50.0%	49	40.5%
3	ordinary	6	28.6%	8	21.1%	7	11.3%	21	17.4%
2	Little satisfied	2	9.5%	0	0.0%	0	0.0%	2	1.7%
1	Never satisfied	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	total	21	100.0%	38	100.0%	62	100.0%	121	100.0%

3 Research Question

I discussed Research Question with X junior college department chair. We shared the problems of X junior college. Taking this matter into account, I made and verified five Research Questions (RQ).

- 【RQ1】 Is there a significant difference between students who asked for advice from professors and students who did not?
- 【RQ2】 Is there a significant difference in the presence or absence of certification?
- 【RQ3】 Is there a significant difference in the way to enter the university?
- 【RQ4】 Is there a significant difference between first choice and the other (Not first choice) about going X junior college?
- 【RQ5】 Is there a significant difference between students who participated in club activities and students who did not?

4 Results

- 【RQ1】 Is there a significant difference between students who asked for advice from professors and students who did not?

There are 4 choices at “Q12. Did you want to consult with the teacher about your work?”. In order to test RQ1, “consulted many times” and “consulted sometimes consultation” in Q12 are referred to as 『Consultation group』. “a little consultation” and “no consultation” are referred to as 『Non Consultation group』.

I analyzed between Consultation group and Non Consultation group about Q7, Q10, Q13, Q14, Q15, Q16 by Mann-Whitney’s U test. (“Q7. Satisfaction after admission” “Q10. Effect of learning in junior college” “Q13. After Junior College graduation, do you want to consult with the teacher about your work?” “Q14. After Junior College graduation, the need to learn” “Q15. After Junior College graduation, do you want to participate in school the events?” “Q16. Did you participate in club activities?”). There are 94 people in the Consultation group and 21 people in the Non Consultation group.

The results of the analysis are described in Table 5. There was a significant difference in the Q7, Q10, Q13, Q15, Q16. Consultation group is higher than Non Consultation group. (Q12. Did you want to consult with the teacher about your work?)

In detail, Consultation group is higher about “A. University ($p < 0.05$)”, “C. Teacher ($p < 0.01$)”, “D. Career support ($p < 0.01$)”, “E. Facility ($p < 0.05$)” in Q7. And “A. Finding a satisfactory job ($p < 0.01$)”, “B. Long-term career ($p < 0.01$)”, “C. Human relationship building ($p < 0.05$)”, “E. Character formation ($p < 0.05$)”, “F. Acquisition of Liberal Arts ($p < 0.01$)” in Q10.

There was a significant difference in the Q16. However, Non Consultation group is higher than the Consultation group.

Table5. 【RQ1】 Is there a significant difference between students who ask for advice from professors and students who do not? ** $p < 0.01$, * $p < 0.05$

		Consultation group	Non Consultation group	Z-score	p value	
		average of the ranks				
Q7. How well were you satisfied?	A.University	60.814	45.405	2.0540	0.0400	*
	B.Lesson	60.574	46.476	1.8975	0.0578	
	C.Teacher	61.989	40.143	2.9361	0.0033	**
	D.Career support	63.612	32.881	4.0709	0.0000	**
	E.Facility	61.037	44.405	2.2233	0.0262	*
Q10. How useful was your Junior College education?	A.Finding a satisfactory job	61.989	40.143	3.0308	0.0024	**
	B.Long-term career	62.25	38.976	3.1700	0.0015	**
	C.Human relationship building	61.191	43.714	2.3544	0.0186	*
	D.Family life	60.468	46.952	1.8126	0.0699	
	E.Character formation	60.215	45.476	2.0461	0.0407	*
	F.Acquisition of Liberal Arts	61.554	39.548	3.1020	0.0019	**
Q13. After Junior College graduation, do you want to consult with your teacher about your work?		62.317	36.167	3.5307	0.0004	**
Q14. How much you needed to learn following graduation?	A.Major field	58.696	49.571	1.2618	0.2070	
	B.Another major field	59.185	47.429	1.6064	0.1082	
	C.Liberal Arts	57.082	53.825	0.4428	0.6579	
	D.work related	57.489	54.857	0.3708	0.7108	
	E.Degree of Bachelor and Master	58.255	51.500	0.8893	0.3738	
	F.Certification acquisition	56.495	59.214	0.3644	0.7155	
Q15. After Junior College graduation, do you want to participate in these event?	A.University Festival	59.167	50.119	1.1996	0.2303	
	B.Homecoming Day	58.109	52.143	0.8327	0.4050	
	C.Extension lecture	58.984	43.929	2.2098	0.0271	*
Q16. Did you participate in club activities?		54.317	71.595	2.4200	0.0155	*

【RQ2】 Is there a significant difference in the presence or absence of certification?

In order to test RQ2, students who took one or more of the four certifications (nutritionist, school nurse, nursery teacher, kindergarten teacher) are referred to as 『Certification group』. These certifications are important to employment. Students who didn't take certifications of nutritionist, school nurse, nursery teacher, kindergarten teacher are referred to as 『Not Certification group』.

I analyzed between Certification group and Not Certification group about Q7,Q10,Q13,Q14,Q15,Q16 by Mann-Whitney's U test. There are 105 people in the Certification group and 16 people in the Not Certification group

The results of the analysis are described in Table 6. There was a significant difference in the Q14. Certification group is higher than Not Certification group. In detail, Certification group is higher in “B. Another major field ($p < 0.01$)”, “C. Liberal Arts ($p < 0.01$)”, “D. work related ($p < 0.01$)”, “F. Certification acquisition ($p < 0.05$)” in Q14.

Table6. 【RQ2】 Is there a significant difference in the presence or absence of certification? ** $p < 0.01$, * $p < 0.05$

		Certification group	Not Certification group	Z-score	p value	
		average of the ranks				
Q7. How well were you satisfied?	A.University	61.029	60.813	0.0246	0.9803	
	B.Lesson	61.538	57.469	0.4684	0.6395	
	C.Teacher	62.757	49.469	1.5205	0.1284	
	D.Career support	62.952	48.188	1.6702	0.0949	
	E.Facility	60.405	64.906	0.5144	0.6070	
Q10. How useful was your Junior College education?	A.Finding a satisfactory job	61.571	57.250	0.5052	0.6134	
	B.Long-term career	61.367	58.594	0.3227	0.7469	
	C.Human relationship building	61.624	56.906	0.5406	0.5888	
	D.Family life	62.662	50.094	1.4319	0.1522	
	E.Character formation	60.938	57.656	0.3884	0.6977	
	F.Acquisition of Liberal Arts	61.813	51.969	1.1782	0.2387	
Q12. Did you consult with your teacher about your work?		62.719	49.719	1.5081	0.1315	
Q13. After Junior College graduation, do you want to consult with your teacher about your work?		60.367	61.433	0.1196	0.9048	
Q14. How much you needed to learn following graduation?	A.Major field	65.279	23.400	4.8159	0.0000	**
	B.Another major field	63.591	35.100	3.2292	0.0012	**
	C.Liberal Arts	63.976	26.250	4.1964	0.0000	**
	D.work related	62.976	39.367	2.7415	0.0061	**
	E.Degree of Bachelor and Master	61.572	49.100	1.3699	0.1707	
	F.Certification acquisition	62.712	41.200	2.3908	0.0168	*
Q15. After Junior College graduation, do you want to participate in these event?	A.University Festival	61.671	52.300	1.0341	0.3011	
	B.Homecoming Day	61.274	51.167	1.1823	0.2371	
	C.Extension lecture	61.192	51.733	1.0864	0.2773	
Q16. Did you participate in club activities?		58.443	74.900	1.9130	0.0557	

【RQ3】 Is there a significant difference in the way to enter the university?

In order to test RQ3, I classified the entrance examination method into four groups. These are: 『Recommendation entrance examination group』, 『Admissions Office entrance examination group』, 『Achievement entrance examination group』, 『Working people entrance examination group』.

I analyzed 4 groups in their answers to: Q7,Q10,Q12,Q13,Q14,Q15,Q16 by the Kruskal-Wallis test. There were 45 people in the Recommendation entrance examination group, 48 people in the Admissions Office group, 10 people in the Achievement group, and 15 people in the Working people group.

After the analysis, there was no significant difference in all. And I classified the entrance examination method into two groups. There are “Admissions Office entrance examination group (N=48)”, “the other group (N=70)”. So analyzed between Admissions Office entrance examination group and the other group by Mann-Whitney’s U test. As a result of the analysis, there was no significant difference in either group.

Table7. **【RQ3】** Is there a significant difference in the way to enter the university? ** $p < 0.01$, * $p < 0.05$

		Recommendation entrance examination group	Admissions Office entrance examination group	Achievement entrance examination group	Working people entrance examination group	p value
		average of the ranks				
Q7. How well were you satisfied?	A.University	62.700	61.719	42.250	54.300	0.2600
	B.Lesson	56.589	59.865	56.850	68.833	0.6225
	C.Teacher	55.989	60.583	71.250	58.733	0.5768
	D.Career support	61.400	58.375	65.050	53.700	0.8012
	E.Facility	61.578	62.458	56.000	46.133	0.3359
Q10. How useful was your Junior College education?	A.Finding a satisfactory job	62.867	57.583	62.000	53.867	0.7379
	B.Long-term career	58.933	59.750	58.200	61.267	0.9937
	C.Human relationship building	62.578	58.333	57.500	55.333	0.8526
	D.Family life	59.356	61.250	53.500	58.333	0.9149
	E.Character formation	56.455	62.479	65.700	50.867	0.4854
	F.Acquisition of Liberal Arts	59.057	61.990	55.900	51.333	0.6766
Q12. Did you consult with your teacher about your work?		60.833	60.677	62.550	49.700	0.6357
Q13. After Junior College graduation, do you want to consult with your teacher about your work?		55.311	61.032	73.700	53.900	0.3380
Q14. How much you needed to learn following graduation?	A.Major field	61.174	55.469	63.750	57.033	0.7728
	B.Another major field	62.198	54.406	60.700	59.533	0.6810
	C.Liberal Arts	57.942	54.011	65.000	66.000	0.5101
	D.work related	57.616	58.323	71.700	52.800	0.4840
	E.Degree of Bachelor and Master	55.360	62.625	60.000	53.300	0.6556
	F.Certification acquisition	57.767	58.135	60.100	60.700	0.9885
Q15. After Junior College graduation, do you want to participate in these event?	A.University Festival	63.909	56.021	59.650	53.700	0.5997
	B.Homecoming Day	59.535	57.063	54.150	63.033	0.8722
	C.Extension lecture	57.105	54.021	71.000	68.500	0.2271
Q16. Did you participate in club activities?		60.057	53.906	68.000	66.200	0.3697

【RQ4】 Is there a significant difference between first choice and the other (Not first choice) about going X junior college?

In order to test RQ4, I classified two groups in Q6 (Did you consider another program before you decided to go to this junior college?). Students who entered junior college by first choice are referred as 『First choice group』. Students who didn't enter junior college by first choice are referred as 『Not first choice group』.

I analyzed between First choice group and Not first choice group about in their answers to Q7,Q10,Q12,Q13,Q14,Q15,Q16 by Mann-Whitney's U test. There are 54 people in the First choice group and 66 people in the Not first choice group. First choice group are 54 people and Not first choice group are 66 people.

As a result of the analysis, there was no significant difference in either group.

Table8. **【RQ4】** Is there a significant difference between first choice and the other (Not first choice) about going X junior college? **p<0.01, *p<0.05

		First choice group	Not first choice group	Z-score	p value
		average of the ranks			
Q7. How well were you satisfied?	A.University	63.241	58.258	0.8394	0.4012
	B.Lesson	65.685	56.258	1.6028	0.1090
	C.Teacher	60.417	60.568	0.0256	0.9796
	D.Career support	59.306	61.477	0.3619	0.7174
	E.Facility	59.213	61.553	0.3938	0.6937
Q10. How useful was your Junior College education?	A.Finding a satisfactory job	62.102	59.189	0.5012	0.6162
	B.Long-term career	61.741	59.485	0.3865	0.6991
	C.Human relationship building	61.370	59.788	0.2672	0.7893
	D.Family life	60.870	60.197	0.1133	0.9098
	E.Character formation	60.380	59.685	0.1212	0.9035
	F.Acquisition of Liberal Arts	59.685	60.262	0.1017	0.9190
Q12. Did you consult with your teacher about your work?		57.463	62.985	0.9467	0.3438
Q13. After Junior College graduation, do you want to consult with your teacher about your work?		58.750	61.038	0.3882	0.6979
Q14. How much you needed to learn following graduation?	A.Major field	58.722	60.156	0.2487	0.8036
	B.Another major field	58.593	60.266	0.2854	0.7753
	C.Liberal Arts	55.009	62.421	1.2753	0.2022
	D.work related	55.574	62.813	1.2656	0.2057
	E.Degree of Bachelor and Master	59.491	59.508	0.0028	0.9977
	F.Certification acquisition	54.389	63.813	1.5781	0.1145
Q15. After Junior College graduation, do you want to participate in these event?	A.University Festival	61.417	58.823	0.4321	0.6657
	B.Homecoming Day	57.783	60.900	0.5476	0.5840
	C.Extension lecture	56.292	62.115	1.0046	0.3151
Q16. Did you participate in club activities?		57.463	62.108	0.8187	0.4130

【RQ5】 Is there a significant difference between students who participated in club activities and students who did not?

There are 4 choices at in “Q16.Did you participate in club activities?”. In order to test RQ5, “very often” and “often” in Q16 are referred to as 『Club activities group』. “sometimes” and “never” are referred to as 『Not Club activities group』.

I analyzed between First choice group and Not first choice group in their answers to about Q7,Q10,Q13,Q14,Q15 by Mann-Whitney’s U test. There are 33 people in the Club activities group and 78 people in the Not Club activities group.

The results of the analysis are described in Table 7. There was a significant difference in the Q10. Not Club activities group is higher than Club activities group. In detail, Not Club activities group is higher in their answers to “D. Family life ($p < 0.01$)”, “E. Character formation ($p < 0.05$)” in Q10.

Table9. **【RQ5】** Is there a significant difference between students who participated in club activities and students who did not? ** $p < 0.01$, * $p < 0.05$

		Club activities group	Not Club activities group	Z-score	p value	
		average of the ranks				
Q7. How well were you satisfied?	A.University	49.394	58.117	1.4086	0.1589	
	B.Lesson	55.742	56.109	0.0594	0.9526	
	C.Teacher	56.485	55.795	0.1115	0.9112	
	D.Career support	55.909	56.038	0.0207	0.9835	
	E.Facility	51.197	58.032	1.1050	0.2692	
Q10. How useful was your Junior College education?	A.Finding a satisfactory job	48.242	59.282	1.8193	0.0689	
	B.Long-term career	56.788	55.667	0.1852	0.8531	
	C.Human relationship building	49.364	58.808	1.5314	0.1257	
	D.Family life	43.833	61.147	2.7797	0.0054	**
	E.Character formation	47.258	59.699	2.0653	0.0389	*
	F.Acquisition of Liberal Arts	51.939	57.718	0.9766	0.3287	
Q12. Did you consult with your teacher about your work?		51.591	57.865	1.0168	0.3092	
Q13. After Junior College graduation, do you want to consult with your teacher about your work?		58.939	54.026	0.8004	0.4235	
Q14. How much you needed to learn following graduation?	A.Major field	61.727	52.831	1.4688	0.1419	
	B.Another major field	57.333	54.714	0.4261	0.6700	
	C.Liberal Arts	53.156	55.766	0.4245	0.6712	
	D.work related	53.227	56.474	0.5429	0.5872	
	E.Degree of Bachelor and Master	56.091	55.247	0.1323	0.8947	
	F.Certification acquisition	58.121	54.377	0.5983	0.5497	
Q15. After Junior College graduation, do you want to participate in these event?	A.University Festival	64.318	52.481	1.8759	0.0607	
	B.Homecoming Day	62.318	52.578	1.6473	0.0995	
	C.Extension lecture	57.242	54.753	0.4123	0.6801	

5 Conclusion

In this study, the following three things became clear by analyzing the results of a survey conducted among the graduates of a Junior College in Japan. Firstly, there is a difference between students who ask for advice from teachers and students who do not. It was found that the former students have a higher expectation for the college and higher motivation. This result shows us that going to professors for advice gives students good effects improved on their school lives. Secondly, there is a difference between students who have any achieved certificates and students who do not. It was found that the former students think to keep pursue learning even after graduation. It is considered that those students are strongly aware of the necessity to pursue their future careers or the importance of learning by pursuing certificates. Thirdly, the method of entrance to the university does not make any difference to students. Perhaps this means the students who pursue their careers gain satisfaction from their school lives, and can keep learning after graduation.

Taking this study into account, I would like to be involved in the policy planning and execution related to management using statistical analysis in the future.

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Questionnaire

Q 1. gender 1 female 2 male **Q 2. major** []

Q 3. Are you expected to graduate in March? 1 yes 2 No

Q 4. What was your entrance method? Please mark in the appropriate item

- | | | | |
|---|-------------------------------------|---|--|
| 1 | Recommendation entrance examination | 2 | Admissions Office entrance examination |
| 3 | Achievement entrance examination | 4 | Working people entrance examination |
| 5 | others [] | | |

Q 5. Why did you go to university? Please mark in the appropriate item.

- | | | | |
|----|--|----|---------------------------------------|
| 1 | There was a major I wanted to learn | 2 | take certifications |
| 3 | finding employment | 4 | school spirit |
| 5 | attending school | 6 | recommendation of high school teacher |
| 7 | recommendation of parent | 8 | recommendation of friends |
| 9 | academic achievement | 10 | economic reasons |
| 11 | I did not go to the school I want to go to | 12 | education philosophy |
| 13 | others [] | | |

Q 6. Did you think of another school before you decided to go to this junior college? Please mark in the appropriate item.

- | | |
|---|---|
| 1 | No |
| 2 | Yes → I University II other junior college III technical school IV others |

Q 7. How well were you satisfied? Please mark in the appropriate item.

		Very satisfied	Quite a satisfied	ordinary	Little satisfied	Never satisfied
A	University	5	4	3	2	1
B	Lesson	5	4	3	2	1
C	Teacher	5	4	3	2	1
D	Career support	5	4	3	2	1
E	Facility	5	4	3	2	1

Q 8. Who was responsible for tuition and living expenses? Please mark in the appropriate item.

		ALL	Most part	little	Nothing
A	family and relatives	4	3	2	1
B	part-time job and savings	4	3	2	1
C	scholarship	4	3	2	1
D	others []	4	3	2	1

Q 9. What certifications did you get? Please mark in the appropriate item.

- | | | | | | | | |
|---|---------------|---|-------------------|---|-----------------------------|---|-----------------------------|
| 1 | Nutritionist, | 2 | Nutrition teacher | 3 | Home cooking skills test | 4 | Nutritionist placement test |
| 5 | School nurse | 6 | Home Helper | 7 | Red Cross first-aid Rescuer | 8 | Social welfare director |

9	Nursery teacher	10	Kindergarten teacher	11	Recreation Instructor	12	Information Processing Test
13	Music therapy	14	Medical office work	15	Peer Helper	16	Eating habits Advisor
17	others []						

Q 1 0 . How useful was your Junior College education? Please mark in the appropriate item.

		Very useful	Quite a useful	ordinary	Little useful	Never useful
A	Finding a satisfactory job	5	4	3	2	1
B	Long-term career	5	4	3	2	1
C	Human relationship building	5	4	3	2	1
D	Family life	5	4	3	2	1
E	Character formation	5	4	3	2	1
F	Acquisition of Liberal Arts	5	4	3	2	1

Q 1 1 . What is your career after graduation? Please mark in the appropriate item.

1	Full-time employee	2	Self employed
3	Contract employee	4	Go to university
5	Go to technical school	6	Part time job
7	Job hunting	8	Housework
9	others []		

Q 1 2 . Did you consult with your teacher about your work? Please mark in the appropriate item.

5	4	3	2	1
Very often	often	ordinary	sometimes	Never

Q 1 3 . After Junior College graduation, do you want to consult with your teacher about your work? Please mark in the appropriate item.

5	4	3	2	1
Very often	often	ordinary	sometimes	Never

Q 1 4 . How much you needed to learn following graduation? Please mark in the appropriate item.

		Very need	Quite a need	ordinary	Little need	Never need
A	Major field	5	4	3	2	1
B	Another major field	5	4	3	2	1
C	Liberal Arts	5	4	3	2	1
D	work related	5	4	3	2	1
E	Degree of Bachelor and Master	5	4	3	2	1
F	Certification acquisition	5	4	3	2	1

Q 1 5 . After Junior College graduation, do you want to participate in these event? Please mark in the appropriate item.

		Very often	often	ordinary	sometimes	Never
A	University Festival	5	4	3	2	1
B	Homecoming Day	5	4	3	2	1
C	Extension lecture	5	4	3	2	1

Q 1 6 . Did you participate in club activities? Please mark in the appropriate item.

5	4	3	2	1
Very often	often	ordinary	sometimes	Never