VIDYASAGAR UNIVERSITY



Perception of student mental stress

Roll No: - 1126116-200129

Registration No: - 1160393

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Context -

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Introduction:-

Stress is defined as the body's non-specific response to demands made upon it or to disturbing events in the environment. It is not just a stimulus or a response but rather, it is a process by which individuals perceive and cope with environmental threats and challenges. In small amounts, stress is normal and can help individuals to be more active and productive. However, very high levels of stress experienced over a prolonged period can cause significant mental and physical problems.

Academic stress is defined as the body's response to academic-related demands that exceed adaptive capabilities of students.² It is estimated that 10–30% of students experience some degree of academic stress during their academic career.³ Indeed, academic stress among students enrolled in highly academic standards universities has a major impact. According to the American College Health Association 2006 survey of college students, the one greatest health obstacle to college students' academic performance was academic stress. Of the 97,357 college students who participated in the survey, 32% reported that academic stress had resulted in an incomplete, a lower grade. Most commonly reported stressors in the academic environment are related to oral presentations, academic overload, lack of time to meet commitments and taking examinations.

Indeed, stress can be augmented even more when students leave their parents and attend far from home college and university for the first time, as it has been found that psychological symptoms, including stress, were commonly manifested among first-year college students. Another stress-inducing factor is the highly competitive educational environment existing in the preparatory years. In a study demonstrating the dark side of competition, that they elevated competitive behavior or people feeling that they have become too inferior may increase vulnerability to depression, anxiety and stress. In another study, Field investigated the

stress effect on high-pressure college preparatory school students and reported that there are high prevalence's of harmful physical and psychological correlates of stress and related unhealthy behaviors, such as widespread and chronic sleep deprivation.

Objective:-

- Which factor is mostly responsible for stress in academic
- Whom(Boys and Girls) is most suffer from academic stress

Factor:-

- Sex
- Residency
- Income
- Father Qualification
- Mother Qualification

Data collection:-

I have investigate that which factor is mainly responsible for student mental stress so I am collect the data from HALDIA GOVERNMENT COLLEGE Statistics Dept, Anthropology Dept, Geography Dept, English Dept, Bengali Dept and etc.

About the data:-

SAAS (The Scale for assessing academic stress) was used to assess student perceived stress. SAAS is a 30 item self report tool with "YES" or "NO" answer. Each item was given 1 point for "YES" with a total score of 30 and 0 for lowest or no stress. All dimensions of possible human manifestation of stress were covered by SAAS tool, including cognitive, affective, social interpersonal, physical and emotional aspects.

- Difficult To Concentrate
- Forget Easily
- Day Dream A Lot
- Difficult In Problem Solving
- Don't Answer The Question in The Class
- Doubt Own Abilities
- Hesitate To Discuss Problem With Teacher
- Feel Inferior
- Lack Of Confidence
- Feel Under Pressure
- Fear Of Failure
- Worry About Parents Expectation
- Over Thinking About The Future
- Get Headache
- Get Nervous Easily
- Less Desire To Eat
- Lack Of Sleep
- Normally Fast Heartbeat
- Nobody To Help
- Get Irritated With Everyone
- Feeling Hesitant To Talk With Anyone
- Like To Stay Alone
- Nobody Understood You

- Lack In Interest In Study
- Not Enjoying Extra Curricular Activities
- Difficulty In Completing Lessons
- Get Bored Easily
- Lack In Work Continuity
- Do Not Feel Like Going To College
- Feel Sleepy In Work(Class)

Methodology:-

The data have been analyzed by analysis of variance (ANOVA) tests were used to test the spearman rank correlation between the factor. P value of <0.05 was considered statistical signature

Result:-

A total no 138 students take part in the questionnaire among themselves 41 were male with average age 20 and 97 were female with average age 19

1) Anova: Male & Female

SUMMARY				
Groups	Count	Sum	Average	Variance
Column 1	41	510	12.43902	29.55244
Column 2	97	1098	11.31959	37.78222

ANOVA						
Source of						F critical
Variation	SS	df	MS	F	P-value	value
Between						
Groups	36.114	1	36.114	1.021275	0.314011	3.910747
Within						
Groups	4809.19	136	35.36169			
Total	4845.304	137				

P value is less than 0.05 so this reject the null

So we conclude that both of male and female have the same chance to stress

2) The ANOVA test for residence and sum of the SAAS score

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Average	Variance
RESIDENCE				
(U=1,R=0)	138	45	0.326087	0.221358
Total	138	1608	11.65217	35.36719

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
					1.55E-	
Between Groups	8851.337	1	8851.337	497.4262	63	3.875621
Within Groups	4875.63	274	17.79427			
•						
Total	13726.97	275				

P value less than 0.05 so we accept the null

It means residency is involved for student mental stress

1) ANOVA: Mother Qualification

SUMMARY				
Groups	Count	Sum	Average	Variance
Column 1	17	215	12.64706	42.61765
Column 2	61	709	11.62295	27.7388
Column 3	37	419	11.32432	48.78078
Column 4	19	216	11.36842	36.35673
Column 5	3	41	13.66667	20.33333
Column 6	1	8	8	0

ANOVA				
Source of				
Variation	SS	df	MS	F
Between Groups	47.8983	5	9.57966	0.263583
Within Groups	4797.406	132	36.34399	
Total	4845.304	137		

P value is greater than 0.05

So we reject the null hypothesis

It means student mental stress does not depend in mother qualification

3) Anova: Father Qualification

SUMMARY				
Groups	Count	Sum	Average	Variance
Column 1	16	220	13.75	60.06667
Column 2	47	509	10.82979	29.62257
Column 3	36	409	11.36111	33.66587
Column 4	29	344	11.86207	34.19458
Column 5	9	118	13.11111	38.36111
Column 6	1	8	8	0

ANOVA

Source of						
Variation	SS	df	MS	F	P-value	F crit
Between Groups	139.0233	5	27.80467	0.779855	0.56592	2.282856
Within Groups	4706.281	132	35.65364			
Total	4845.304	137				

student mental stress does not depend in father qualification because p value is greater than $0.05\,$

4)ANOVA: Single Factor(years)

SUMMARY

Groups	Count	Sum	Average	Variance
Column 1	42	419	9.97619	39.43844
Column 2	73	918	12.57534	30.44216
Column 3	23	271	11.78261	38.90514

ANOVA

Source of Variation	SS	df	MS	F
Between Groups	180.5795	2	90.28975	2.613041
Within Groups	4664.725	135	34.55352	
Total	4845.304	137		

Here we accepted null it means student studying years involve stress level

5) Sum of SAAS score and residency ANOVA test

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Average	Variance
RESIDENCE				
(U=1,R=0)	138	45	0.326087	0.221358
Total	138	1608	11.65217	35.36719

ANOVA

Source of Variation	SS	df	MS	F
Between Groups	8851.337	1	8851.337	497.4262
Within Groups	4875.63	274	17.79427	
Total	13726.97	275		

P value is less than 0.05 so we accept the null

It means stress levels depend on the residence of a student

6) The rank correlation between family size and the sum of the SAAS score $R{=}1{-}(6\Sigma D^2\,/N(N^2{-}1))$

SIZE	Total	R _{SIZE}	R _{TOTAL}	D	D^2
3	13	3	81	-78	6084
5	17	83	107	-24	576
8	16	130	102	28	784
4	25	23	132	-109	11881
4	19	23	120	-97	9409
4	18	23	114	-91	8281
12	5	131	16	115	13225
4	19	23	118	-95	9025
5	10	79	54	25	625
5	14	79	86	-7	49

3	11	3	61	-58	3364
4	17	22	102	-80	6400
3	14	3	85	-82	6724
5	7	76	30	46	2116
4	8	21	35	-14	196
4	11	21	59	-38	1444
5	15	74	89	-15	225
4	11	21	59	-38	1444
4	12	21	66	-45	2025
4	17	21	95	-74	5476
6	14	102	80	22	484
3	20	3	108	-105	11025
6	19	101	105	-4	16
4	12	20	66	-46	2116
3	19	3	104	-101	10201
3	10	3	52	-49	2401
5	5	67	16	51	2601
5	11	67	57	10	100
4	14	18	76	-58	3364
3	8	3	34	-31	961
5	14	65	75	-10	100
5	17	65	87	-22	484
5	15	65	79	-14	196
4	11	17	56	-39	1521

5	17	64	85	-21	441
3	13	3	67	-64	4096
4	15	16	77	-61	3721
5	19	62	92	-30	900
9	7	97	29	68	4624
6	9	86	39	47	2209
4	12	16	59	-43	1849
5	16	61	76	-15	225
5	12	61	59	2	4
3	5	3	16	-13	169
3	9	3	38	-35	1225
5	14	59	67	-8	64
6	11	80	52	28	784
3	14	3	66	-63	3969
4	11	13	52	-39	1521
3	6	3	20	-17	289
12	12	88	54	34	1156
5	10	56	45	11	121
4	16	12	66	-54	2916
3	6	3	20	-17	289
4	5	11	16	-5	25
2	4	2	10	-8	64
3	7	2	24	-22	484
6	9	71	33	38	1444

5	3	51	7	44	1936
4	9	9	32	-23	529
4	10	9	38	-29	841
4	4	9	9	0	0
5	8	48	25	23	529
6	5	66	13	53	2809
4	5	9	13	-4	16
4	10	9	34	-25	625
5	8	46	23	23	529
4	4	9	9	0	0
5	8	45	22	23	529
4	8	9	22	-13	169
6	2	60	5	55	3025
6	6	60	12	48	2304
6	5	60	11	49	2401
4	8	9	19	-10	100
4	27	9	63	-54	2916
5	27	42	63	-21	441
4	6	9	11	-2	4
3	4	2	8	-6	36
4	2	8	5	3	9
4	9	8	17	-9	81
4	9	8	17	-9	81
5	10	37	21	16	256

4	16	8	39	-31	961
5	13	36	29	7	49
8	12	52	26	26	676
4	17	8	38	-30	900
3	15	2	35	-33	1089
4	18	7	40	-33	1089
5	24	33	48	-15	225
4	17	7	37	-30	900
4	22	7	43	-36	1296
5	23	31	44	-13	169
4	9	7	17	-10	100
3	18	2	38	-36	1296
4	13	6	27	-21	441
5	13	28	27	1	1
5	14	28	30	-2	4
4	11	6	22	-16	256
6	17	36	32	4	16
3	11	2	22	-20	400
3	13	2	25	-23	529
5	9	25	17	8	64
5	8	25	16	9	81
4	16	4	27	-23	529
4	11	4	20	-16	256
5	18	23	27	-4	16

5	9	23	16	7	49
4	22	4	28	-24	576
4	6	4	9	-5	25
4	6	4	9	-5	25
4	13	4	19	-15	225
3	12	2	17	-15	225
4	14	3	19	-16	256
4	15	3	19	-16	256
4	1	3	3	0	0
5	0	15	1	14	196
6	6	19	7	12	144
4	7	3	8	-5	25
4	17	3	15	-12	144
1	24	1	18	-17	289
4	18	2	15	-13	169
4	0	2	1	1	1
4	6	2	6	-4	16
5	10	9	9	0	0
5	10	9	9	0	0
4	7	2	6	-4	16
9	7	11	6	5	25
9	9	11	6	5	25
4	3	2	2	0	0
5	4	7	3	4	16

5	3	7	2	5	25
4	4	2	2	0	0
4	1	2	1	1	1
6	13	5	2	3	9
4	26	2	4	-2	4
4	23	2	3	-1	1
4	18	2	2	0	0
3	12	1	1	0	0

SUM	6*D^2	N(N^2-1)	R
191764	1150584	2627934	0.562172

so we conclude the income and the sum of the SAAS score are correlated

7) the rank correlation between sum of SAAS score and family income of the student

INCOME	Total	R(INM)	R(TOTAL)	D	D^2
12000	13	78	81	-3	9
80000	17	129	108	21	441
15000	16	86	103	-17	289
40000	25	119	135	-16	256
15000	19	86	123	-37	1369
150000	18	134	117	17	289
10000	5	58	16	42	1764
10000	19	58	123	-65	4225
30000	10	110	55	55	3025
5000	14	10	89	-79	6241
25000	11	108	63	45	2025
6000	17	27	108	-81	6561
6000	14	27	89	-62	3844

15000 20000	7	86	31	55	3025
					00-0
20000	8	99	37	62	3844
20000	11	99	63	36	1296
8000	15	44	98	-54	2916
30000	11	110	63	47	2209
5000	12	10	73	-63	3969
20000	17	99	108	-9	81
8000	14	44	89	-45	2025
10000	20	58	128	-70	4900
10000	19	58	123	-65	4225
9000	12	55	73	-18	324
10000	19	58	123	-65	4225
10000	10	58	55	3	9
100000	5	131	16	115	13225
16000	11	94	63	31	961
9000	14	55	89	-34	1156
35000	8	117	37	80	6400
8000	14	44	89	-45	2025
16000	17	94	108	-14	196
8000	15	44	98	-54	2916
10000	11	58	63	-5	25
12000	17	78	108	-30	900
10000	13	58	81	-23	529
19000	15	98	98	0	0
15000	19	86	123	-37	1369
18000	7	96	31	65	4225
200000	9	135	45	90	8100
12000	12	78	73	5	25
5000	16	10	103	-93	8649
30000	12	110	73	37	1369
4800	5	9	16	-7	49
7000	9	37	45	-8	64
30000	14	110	89	21	441
8000	11	44	63	-19	361
6000	14	27	89	-62	3844
35000	11	117	63	54	2916
5000	6	10	23	-13	169
15000	12	86	73	13	169
6000	10	27	55	-28	784
20000	16	99	103	-4	16
500	6	2	23	-21	441
7000	5	37	16	21	441
5000	4	10	10	0	0

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48000 13 123 81 42 1764 14800 12 85 73 12 144 6000 17 27 108 -81 6561 5000 15 10 98 -88 7744 5000 18 10 117 -107 11449 5000 24 10 133 -123 15129 0 17 1 108 -107 11449 5000 22 10 129 -119 14161 6000 23 27 131 -104 10816 7000 9 37 45 -8 64 50000 18 124 117 7 49 8000 13 44 81 -37 1369 8000 13 44 81 -37 1369 7000 14 37 89 -52 2704	10000	10	58	55	3	9
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7000 14 37 89 -52 2704 8000 11 44 63 -19 361	8000	13	44	81	-37	1369
8000 11 44 63 -19 361	8000	13	44	81	-37	1369
	7000	14	37	89	-52	2704
8000 17 44 108 -64 4096	8000	11	44	63	-19	361
	8000	17	44	108	-64	4096

8000 11 44 63 7000 13 37 81 7000 9 37 45	-19 -44	361 1936
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	-8	64
6000 8 27 37	-10	100
14000 16 84 103	-19	361
28000 11 109 63	46	2116
5000 18 10 117	-107	11449
1000000 9 138 45	93	8649
600000 22 136 129	7	49
600000 6 136 23	113	12769
12000 6 78 23	55	3025
40000 13 119 81	38	1444
10000 12 58 73	-15	225
10000 14 58 89	-31	961
22000 15 107 98	9	81
100000 1 131 3	128	16384
15000 0 86 1	85	7225
100000 6 131 23	108	11664
10000 7 58 31	27	729
65000 17 127 108	19	361
40000 24 119 133	-14	196
80000 18 129 117	12	144
20000 0 99 1	98	9604
30000 6 110 23	87	7569
10000 10 58 55	3	9
20000 10 99 55	44	1936
8000 7 44 31	13	169
6000 7 27 31	-4	16
6000 9 27 45	-18	324
6000 3 27 7	20	400
5000 4 10 10	0	0
65000 3 127 7	120	14400
3000 4 3 10	-7	49
4000 1 4 3	1	1
7000 13 37 81	-44	1936
10000 26 58 136	-78	6084
10000 23 58 131	-73	5329
10000 18 58 117	-59	3481
5000 12 10 73	-63	3969
TO	OTAL	467248

6ΣD ²	2803488
N(N ² -1)	2627934

 $R=1-(6\Sigma D^2/N(N^2-1))$

R=-0.0668030475

We conclude that the sum of the SAAS score and the family size of a student is a negatively correlated

Conclusion: In this era, students are highly pressurized by study and various types of exams where students are put in highly competitive exams with life-changing decisions and circumstances. Academic stress is correlated with family size and also family income, the residence of a student.

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