



Answer two questions only including question No: 1

Total marks 50

1. The human resource manager of a telemarketing firm is concerned about the rapid turnover of the firm's telemarketers. It appears that many telemarketers do not work very long before quitting. There may be number of reasons including relatively low pay, personal unsuitability for the work, and low probability of advancement. Because of the high cost of hiring and training new workers, the manager decided to examine the factors that influence workers to quit.

He reviewed the work history of a random sample of workers who have quit in the last year and recorded the number of weeks on the job before quitting and the age of each worker when originally hired.

Few sections of the SPSS output for the sampled data are as follows.

Regression output

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1.	.434 ^a	.188	.178	1.813

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	59.517	1	59.517	18.103	.000 ^a
	Residual	256.433	78	3.288		
	Total	315.950	79			

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	30.633	1.044		29.338	.000
	age	-.117	.027	-.434	-4.255	.000

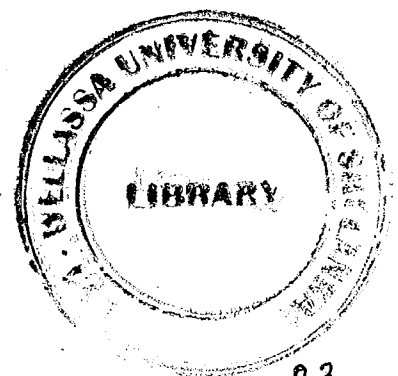
i) Analyze the case by using above information while giving special attention to the followings.

- R square
- Adjusted R square
- Standard error of estimate
- Regression equation
- F value
- Coefficient of correlation

(Assume that Pearson's coefficient of correlation for this case is "-0.434" and the mean number of employment weeks is 26.275 weeks)

(15 marks)

ii) The production manger of a company collected data related to the amount of time (in seconds) needed to complete a critical task on an assembly line. The sample comprised with 50 assemblies. He is going to analyze data by using descriptive statistics and with the help of SPSS. Following is the output of the descriptive statistics for assembly line data. Production manager needs your help to analyze the data.



SPSS output of descriptive statistics for assembly line data

Statistics

timeinseconds

N	Valid	50
	Missing	30
Mean		41.9780
Median		41.1000
Mode		40.20
Std. Deviation		1.88585
Variance		3.556
Range		7.90
Minimum		40.00
Maximum		47.90
Percentiles	25	40.5750
	50	41.1000
	75	43.1250

You are requested to;

Write an analytical paragraph regarding the given information.

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2. Immediately after World War II, the need for research ethics was significantly felt to even nation who involved in research activities.

You are requested to;

Write an essay on 'research ethics' by giving special attention to followings.

- a) Research ethics
- b) The importance of ethics
- c) The rights and responsibilities of the researcher

(15 marks)

3. "Self completion questionnaires are highly used in research activities as it is free of deficiencies". Do you agree with the statement? Justify your answer.

(15 marks)

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