Saptagandaki Multiple Campus

Practical Exam – 2080

(Compute the following questions using SPSS and save the output)

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1. Draw pie chart, histogram, bar graphs from the following data.

Marks	2	4	6	8	10	12	14	16	18
No. of students	5	15	25	30	22	18	12	8	

2. Calculate the mean, median, mode and standard deviation from the following frequency distribution

Wages(Rs)	20-30	30-40	40-50	50-60	60-70	70-80	80-90
NO of Workers	5	10	15	12	9	8	5

3. Find the correlation coefficient from the following data

Height(cm)	115	120	124	135	144	146	148	152	155	158
Weight(Kg)	68	75	72	84	78	88	86	90	89	92

4. From the following data, compute the line of regression for estimating age on weight.

Age	5	15	30	45	50	60
Weight	10	35	50	65	55	45

5. Following are the information about the worker of ABC company

1	Hari	Male	23	School Level	15000
2	Sanam	Female	32	+2 Level	18000
3	Sita	Female	35	PHD	30000
4	Gita	Female	30	School Level	25000
5	Ram	Male	32	Bachelor Level	22000
6	Gopal	Male	25	Bachelor Level	30000
7	Jeevan	Male	28	Master Level	21000
8	Prem	Male	31	PHD	35000
9	Bishnu	Male	32	Master Level	25000
10	Durga	Female	37	PHD	20000
11	Deepa	Female	35	School Level	18000
12	Amrit	Male	35	+2 Level	18000
13	Govinda	Male	25	Bachelor	25000
14	Raju	Male	30	Master level	20000
15	Reema	Female	32	+2 Level	22000

Answer the following question by using SPSS.

a) Entry a given data in to a SPSS file and show variable view and data view.

b) Make a discrete frequency distribution table of gender and Qualification.

c) Calculate mean, median, mode , standard deviation , P_{30}, P_{68}, and P_{85} of age and salary.

6. The following table represents the sales of three salesmen in four regions

Regions		Sales Persons	
	A	B	C
R1	14	20	16
R2	12	23	15
R3	10	20	10
R4	8	18	12

Test whether there is any significant difference in the sales of different districts at 5% level of significance.

7. The following table gives the data on performance of three different detergents at three different water temperatures. The performance was obtained on the witness reading based on specially designed for nine loads of washing:

	Detergent A	Detergent B	Detergent C
Cold water	45	43	55
Warm water	37	40	56
Hot water	42	44	46

Perform a two-way analysis of variance using the level of significance 5%.