

2.

2.1 Give three examples for each of the following scales of measurements. (45 marks)

Nominal 1.....
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Interval 1.....
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Ratio 1.....
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2.2 The sample mean of LDL level of a sample of 100 patients with hypertension was 130 mg/dL and the standard deviation was 10 mg/dL.

2.2.1 Calculate the 95% confidence interval of the population mean. (40 marks)

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2.2.2 How would you interpret the above results? (15 marks)



3. The sample mean of HDL cholesterol levels of 200 patients was 50 mg/dL with standard deviation of 20 mg/dL.

3.1 What percentage of patients had the cholesterol level less than 40 mg/dL?

(30 marks)

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3.2 What percentage of patients had the cholesterol level between 40 mg/dL and 60 mg/dL?

(40 marks)

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3.3 What percentage of patients had the cholesterol level greater than 80 mg/dL?
(30 marks)

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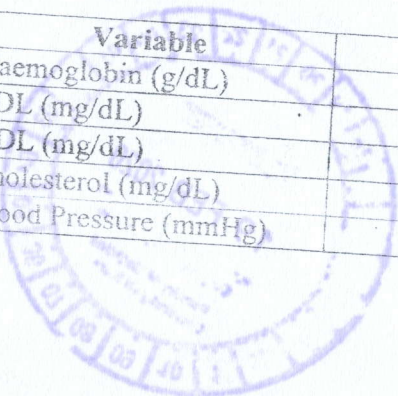
Read the following data set and answer the questions given below.

Variable	Mean	Maximum	Minimum	SD
Haemoglobin (g/dL)	18.5	22.0	10.5	3
LDL (mg/dL)	120	200	80	20
HDL (mg/dL)	50	80	30	10
Cholesterol (mg/dL)	230	290	150	25
Blood Pressure (mmHg)	115	160	105	10

4.1 Find the ranges for each of the above variables

(25 marks)

Variable	Range
Haemoglobin (g/dL)	
LDL (mg/dL)	
HDL (mg/dL)	
Cholesterol (mg/dL)	
Blood Pressure (mmHg)	



4.2 Calculate the Coefficient of variation for the following variables (50 marks)

4.2.1. Haemoglobin (g/dL)

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4.2.2. Cholesterol (mg/dL)

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4.3 Which one of the two variables in question given above has the greater variability? (25 marks)

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