St. Name (in Arabic):....Key B..................... St. Number:..sec:..................

Question # 1. Fill in the blank and multiple choice questions:

1. The variable " Business Sector" (1. Private, 2. Public) is
   a. Quantitative   (b.) Qualitative

2. The measurement Scale for the variable "Type of school: 1. Private 2. Public" is
   a. Interval   (b.) Nominal   c. Ratio   d. Ordinal

3. A .....Sample.................. is a subset of the population.

4. ...Time....Series........ data is collected over several regular time intervals.

5. To summarize data about Majors التخصصات at BZ University we use:
   a. Cross Tabulation   b. Scatter Plot   (c.) Bar Graph (Bar Chart)   d. Ogive

6. To study the relationship between "Price" and "Quantity Supplied", the appropriate method is:
   a. Cross Tabulation   b. Cross-Sectional data   (c.) Scatter Plot   d. Pie Chart

Question #2: If the scores of 24 students are distributed in the following table:

Score	Frequency
0—19	2
20—39	5
40—59	10
60—79	5
80--99	2
Total	24

1. What is the variable Name :........Score.................................

2. What is the class width ?:...........20..

3. How many classes are there ?:........5.....................................

4. What is the sample size ? ....24....................................

5. What is the **relative frequency** of class « 40 -59 » : $\dfrac{10}{24}$ = 0.417

6. What percentage of students got a score of 59 or less: $\dfrac{17}{24}$ = 0.708 = 70.8%

7. What is the **shape** of the Distribution ?

    a. Left Skewed   (b.) Symmetric   c. Right Skewed

Question # 3
Data on Education level and monthly salary of workers in Jawwal company follow:

Education Level	Monthly Salary in NIS			Total
	1000--2999	3000--4999	5000--7999	
Tawjihi	20	15	1	36
College	30	40	20	90
University	25	35	54	114
Total	75	90	75	240

1. What is the **population** : Workers in Jawwal Company

2. How many **elements** are there in the population ?: 240

3. How many **variables** are there in this table ?: 2

4. What **percentage** of workers completed a **University degree**: $\dfrac{114}{240}$ × 100 % = 47.5%

5. OF those workers who have a **University degree**, What **percentage** earns 5000-7999 NIS

$\dfrac{54}{114}$ × 100 % = 47.4%

6. **Based on the data in the cross-tabulation we conclude that:** (Circle the best answer).

a) There is a negative relationship between Education level and monthly salary

(b) There is a positive relationship between Education level and monthly salary

c) There is no relationship between Education level and monthly salary