1-(20 Points)

*Write the names of four techniques which are used to identify the requirements in specification document during requirement analysis*.

1. **Interviews**
2. **Focus groups**
3. **Surveys**
4. **Prototyping**

2-(20 Points) *Translate the sentence paragraph in English language.*

"*Yazılım geliştirme sürecinin başarısı için gereksinimlerin ve yazılım isterlerinin çok iyi anlaşılması gerekir*."

**For the success of the software development process, the requirements and software requirements must be well understood**

3-(20 Points) Translate the following paragraph into Turkish language.

*"In order to operate on an input value, it should be kept in the computer memory. Programs operate on data stored in memory and store the results again in memory as data."*

**"Bir giriş değeri üzerinde çalışabilmek için, bilgisayar belleğinde tutulmalıdır. Programlar bellekte depolanan veriler üzerinde çalışır ve sonuçları veri olarak bellekte tekrar depolar."**

4-(20 Points)

*Write True or False at the end of the sentences about XOR gate?*

a) It is sometimes used in machine code to clear a register. True

b) It helps in creating Half Adder circuits. True

c) It is used in sequence detection or correlation. True

d) It helps us to know if the two signals are equal to each other or not. True

e) It is used in parity check. True

f) It is useful in encryption in information theory. True

g) It is used in a door with a lever to open/close it on both sides False

h) It can be used in a door with a lever to open/close it on both sides True

5-(20 Points)

Fill in the blanks

a) Spiral Model has been created by combining the best aspects of both classical and prototyping method.

b) Experience has shown that a system Testing costs may be close to or even higher than the total cost of other stages of the system.

c) the Waterfall model is a suitable method for the projects which are particularly well-defined, have definite requirements, and are unexpected to take more time in which payments are made according to a fixed price and progress billing

d) The operation NOT is another Boolean operation. It differs from AND, OR, and XOR because it has only one input.