



المؤسسة العامة للتدريب التقني والمهني  
Technical and Vocational Training Corporation

كلية الاتصالات والمعلومات بالرياض

قسم الحاسب والمعلومات

مقرر هندسة البرمجيات

الفصل التدريبي الثاني للعام 1442هـ

Chapter1 Homework

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### Q1: What is software?

Computer programs and associated documentation. Software products may be developed for a particular customer or may be developed for a general market.

### Q2: What are the attributes of good software?

functionality performance maintainable, dependable usable.

### Q3: What is software engineering?

all aspects of software production.

### Q4: What are the fundamental software engineering activities?

specification, development, validation evolution.

### Q5: What are the best software engineering techniques and methods?

With all software projects

### Q6: What are the software products? and who is responsible for their specification?

Generic products

Customized products

the client is responsible for their specification

### **Q7: What are the Essential attributes of a good software?**

Maintainability  
Dependability and security  
Efficiency  
Acceptability

### **Q8: What are the application types? support your answer with examples.**

#### **+ Stand-alone applications**

Such as a PC

#### **+ Interactive transaction-based applications + Embedded control systems**

such as e-commerce applications. + **Entertainment systems**

· These are systems that are primarily for personal use and which are intended to entertain the user.

#### **+ Embedded control systems**

· These are software control systems that control and manage hardware devices. Numerically, there are probably more embedded systems than any other type of system.

#### **+ Batch processing systems**

• These are business systems that are designed to process data in large batches. +

#### **Systems for modelling and simulation**

· These are systems that are developed by scientists and engineers to model physical processes or situations, +

#### **Data collection systems**

· These are systems that collect data from their environment using a set of sensors and send that data to other systems for processing.

#### **\* Systems of systems**

These are systems that are composed of a number of other software systems.

### **Q9: When should we reuse software that has already been developed rather than write new software?**

Where appropriate, you should reuse software that has already been ✦  
developed rather than write new software.

**Q10: What are the good attributes of Web software engineering?**

- + Service-oriented systems
- + Rich interfaces.
- + Software reuse
- + Incremental and agile development