

King Saud University, Computer Science Department

Midterm: Fall 1430, 16 /02 / 1431	Time Allowed: 2 h
Course Title: Advanced SWE	Course Code: CSC 541
NAME: _____ ID: _____	

Question 1: (5 pts)

List 5 bug causes so they fit with the following categories:

Category 1: causes that relate to SW logic

1. Complex code

Category 2: causes that relate to human factors

2. Health problems

Category 3: causes that relate to SW process errors

3. Poor design
4. Poor testing
5. Evolving requirements

Question 2: (5 pts)

Write the corresponding letter A, B, or C in the second column (one and only one response per arrow.)

- A. Test entry criteria B. Test continuation criteria C. Test exit criteria

No software changes have been done	C
Software changes that have been done are well known	B
There are 0 showstoppers	C
70% of the previously reported bugs have been fixed	A
No halt or crash during 3 weeks	C

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Questions 3: (5 pts)

(A) Waterfall (B) Evolutionary development (C) Iterative development (D) Component-based SWE.

Write the corresponding process code (one and only one among A, B, C, D) in the empty column.

A lot of integration work has been done before even starting the development. The applied process is _____.	D
The _____ process is the most appropriate one when the requirements are not complete.	B
In the _____ process, the specification and the development may be operated concurrently.	B
Progress assessment is easier to perform in the _____ process.	A
In the _____ process, there is lower risk to have a high number of bugs.	C

Questions 4: (5 pts)

Write the corresponding code (one and only one among A, B, C, D) in the empty column.

Risk analysis is a part of _____ (A) Project planning (B) Project data updating (C) Requirement reviewing	A
Defining the reporting process is a part of _____ (A) Project planning (B) Quality planning (C) Requirement reviewing	A
The WBS is the simplest form of _____ (A) Project planning (B) Project data updating (C) Requirement reviewing	A
The more effort-consuming management activity is _____ (A) Project planning (B) Project data updating (C) Requirement reviewing	B
The more effort-consuming management activity is _____ (A) Project schedule reviewing (B) Project definition (C) Requirement reviewing	A

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Question 5: (4 pts)

A bad system build could be caused by:

- Linux-based library used for Windows-based release. T/F? T
- Wrong class version. T/F? T
- An absolute name of a variable provided in the configuration file. T/F? F
- Old compiler version. T/F? T

Question 6: (2 pts)

You are a project manager. When solving conflicts, you should A and B (two and only two response codes.)

- A. Separate the real problem from personal issues
- B. Separate the real needs from personal issues
- C. Separate the real roles from personal issues
- D. Separate specific solutions from personal issues
- E. Separate individualities from personal issues

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Question 7: (9 pts)

Some configuration management elements are given below. Match the two columns.

Alpha candidate	H	A. A new instance of a software that will be tested by the QC team
Change request form	I	B. A new instance of a website software in which three html pages have been added
Configuration management	F	C. A new instance of a website software in which some spelling errors have been fixed
Patch	G	D. Who has the version 1.2.13 of the authentication html page?
Beta version	E	E. Approved by the QA manager
Version	B	F. Concerned with versioning and change management
Variant	C	G. To be run on the customer's machine
Release	A	H. Proposed by the SW manager
Microsoft VSS will answer the question	D	I. Part of the configuration management plan

Question 8: (5 pts)

Fill in the first column by the appropriate role (one and only one role per arrow; don't repeat roles on more than one answer.)

Customer service personnel	Initiate a change request by completing a change request form
Change control board	Approve the requested change
Senior developer	Analyze how the requested change may be implemented
Software manager	Analyze the change cost
Developer	Make changes to the software