

University of Palestine



2nd Semester 2018/2019
Midterm Exam 1

Course No.: **TMIS 4314**
Course Title: **IT Audit and Control**
Date: **12/03/2019**
No. of Questions: **3**
Time: **1 hour**

Lecturer Name: **Dr. Tamer Madi**
College Name: **Information Technology**
Dep. / Specialist: **MIS**
Total Grade: **15**
Using Calculator : **No**

Student Name:

Student No:

Dear students,

First of all you should to read carefully through all the exam questions, and then you have to attempt the questions that you think you can answer completely.

This exam contains **THREE (3)** questions in **FOUR (4)** printed pages include the cover page.

Answer all the questions in the space provided.

Good luck & best wishes

FOR INSTRUCTOR USE ONLY

Question 1	Question 2	Question 3	Total

Notes:

Signature:

Q1) Indicate whether the following statements are True or False: (5 Marks)

- () 1. A software product is defined as a collection of computer programs, procedures, and possibly associated documentation.

- () 2. The Software Quality Assurance (SQA) includes the maintenance activity.

- () 3. All software faults lead to software failures.

- () 4. Faulty requirements definition is usually considered the root cause of software errors.

- () 5. The Software Quality Assurance (SQA) concentrates more on product, while the Software Quality Control (SQC) focuses on process.

- () 6. Integrity requirements deal with the testing process of a software system and its operation.

- () 7. Portability requirements focus on creating interfaces with other software systems or with other equipment firmware.

- () 8. Verifiability requirements address design and programming features that allow for efficient verification of design and programming.

- () 9. The general quality assurance tools and methodologies can be applied successfully in software quality assurance.

- () 10. One of the characteristics that influence the SQA environment is the interfaces of the software with other existing systems.

Q2) Compare between the following terms? (4.5 Marks)

A) *Software Quality Assurance (SQA)* vs. *Software Quality Control (SQC)*?

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B) Usability vs. Reusability?

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C) Industrial Product vs. Software Product?

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Q3) Answer the following questions? (5.5 Marks)

A) Describe the Mc'Call Model of quality factors? (3 Marks)

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B) Flights Booking Software (FBS) is a software product that deals with enabling the travellers to book flights tickets online, printing tickets, and automatic notifying travellers about their flights dates and time or if there are any updates.

The software requirement specification document includes a chapter related to the required quality factors. **In the following table, you will find sections from the mentioned requirements document. For each section, fill in the name of the McCall’s factor that best fits the requirement (choose only one factor per requirements section). (2.5 Marks)**

No.	Section from the requirement document	The Quality Factor
1	The probability that the “FBS” software system will be found in a state of failure during peak hours (9 am to 10 pm) is required to be below 0.1%.	_____
2	The “FBS” software system will enable the direct payment of the flight ticket via the “Online Banking” software package.	_____
3	The “FBS” software package developed to run over desktop devices and should be compatible with applications in mobile environment.	_____
4	The “FBS” software package should diagnose itself when some errors occur.	_____
5	The “FBS” software system will record details of users logging in. In addition, the system will report attempts by unauthorized persons to obtain travellers’ information from the database. Reports will include detailed information about unauthorized attempts to access the database of “FBS”.	_____

End of Questions

Best Wishes