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| TuesdayNorth Campus |
| Midterm Exam (Hourly-I) Spring - 2021 |



Subject: Software Quality Assurance Submission Day/Date: Saturday/11:45-2:45

Instructor: Engr. Shumail Zahra Submission Duration: 3 Hours

Program: BSCS Max. Marks: 10

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Department of \_\_\_\_\_\_\_\_\_\_\_\_Computer Science\_\_\_\_\_\_\_

Please follow the instructions carefully:

1. Write your answers in a Word file and upload the file before the due time on BlackBoard.
2. Write your name and registration ID on the first page of your Word file.
3. Answer scripts can be uploaded on BlackBoard within or before its deadline. Therefore, do not wait for the last hour to avoid any unforeseen problems.
4. Submission of answer copy(ies) will be considered acceptable through BlackBoard only. Therefore, do not submit your document through email or any other medium.
5. Use 12 pt. font size and Times New Roman font style along with 1-inch page margins.
6. Follow the requirements of the word limit and the marking criteria while writing your answers.
7. Provide relevant, original and conceptual answers, as this exam aims to test your ability to examine, explain, modify or develop concepts discussed in class.
8. Do not copy answers from the internet or other sources. The plagiarism of your answers may be checked through Turnitin.
9. Recheck your answers before the submission on BlackBoard to correct any content or language related errors.
10. Double check your word file before uploading it on BlackBoard to ensure that you have uploaded the correct file with your answers.

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| Question #1 Marks 5 |

We have taken all the possible techniques to prevent the defects in different phases of SDLC. Do we still need to test the software? Explain your answer.

**Answer:**

Software Testing is necessary because we all make mistakes. Some of those mistakes are unimportant, but some of them are expensive or dangerous. We need to check everything and anything we produce because things can always go wrong.

Since we assume that our work may have mistakes, hence we all need to check our own work. However some mistakes come from bad assumptions and blind spots, so we might make the same errors when we check our own work as we made when we did it. So we may not notice the flaws in what we have done, that is why software testing is important.

Ideally, we should get someone else to check our work because another person is more likely to spot the flaws

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| Question #2 Marks 5 |

Evaluate the below mentioned process and formulate your recommendations related to what should be added or changed in the process to make it more effective and in line with the best practices followed in the industry?

***Evaluate the Inspection Process of A-Soft:***

**Your Company has a long tradition of conducting rigorous Inspections on each and every of its work-items. A deeper look into the process reveals that the Inspections follow the following process:**

“After completing the work on a Work-item, the author of the work-item initiates the Inspection process. He/She invites his/her Manager and can carefully selects the required participants (maximum 5) and go-through their Schedule-diaries to find a suitable time slot. He then invites the participants for that time-slot and books a Meeting Room for the Inspection purpose.

During the Inspection process, the Author presents his Work-item to the participants. The participants provide their view points and the final outcome of the discussion is noted by the Manager.

Apart from the participants invited by the producer, the Manager has to invite 2 people as observing participants. The main objective of the Manager and these observing participants will be to evaluate/provide feedback about the skill-set of the author.

At the end of the Inspection session, the Author needs to submit the final findings of the Inspection to the Manager.

The Manager needs to evaluate the findings and determine if any rework is required and assign that work to any of the peers of the Author”.

**Answer:**

The above mentioned scenario illustrates the standard product/item inspection behavior of the industry, software inspection process follows the same pattern but with a slight change as per modern standards i.e. when a software product is inspected the only participants are the SQA Department and the Team Manager, first the SQA team fully evaluate the end product then submit a complete report to the manager containing each and every single aspect of the software product, the manager then review the report submitted by the SQA team and informs the development team about the remaining necessary changes to be made in order to launch the product for the end user, when the dev team finish their changes the SQA team again evaluate the product completely and submit the report to manager and if there is no need for further changes and no errors were found during testing by the SQA team the manager then finally order the dev team to launch the product for end user The above mentioned is the complete inspection process of a software according to modern aspects