**Fall 2020 Mid-Term Assignment**

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| **Course Name** | **Max. Marks** | **Max Duration** | **Date** | **Instructor** |
| Software Requirement Specification | 30 | 6 Days | 13/4/2020 | Aasma Khan |

* **Attempt all questions.**
* **Marks will be given as per the DEPTH of the answer, not LENGTH.**

**Question No: 01** **(15\*1=15)**

**MCQs**

1. **Which of the following is correct for the types of requirements?**  
   A. Reliability  
   B. Availability  
   C. Usability  
   D. All of the above
2. **2. Select the developer-specific requirement?**  
   A. Availability  
   B. Portability  
   C. Usability  
   D. Maintainability  
   E. Both B & D
3. **The following is not a step of requirement engineering?**  
   A. design  
   B. elicitation  
   C. documentation  
   D. analysis
4. **Symbolic representation of QFD is**…  
   A. quality function development  
   B. quality function deployment  
   C. quality function design  
   D. none of the mentioned
5. **What are the system requirement of the documents..?**  
   A. SRS  
   B. SDD  
   C. SRD  
   D. DDD
6. **The most important stakeholder is\_\_\_\_\_\_\_\_\_\_\_:**  
   A. Middle-level stakeholder  
   B. Entry level personnel  
   C. Users of the software  
   D. Managers
7. **Which of these steps is includes in the Requirement engineering process…**  
   A. Requirement Gathering  
   B. Feasibility study  
   C. Validation  
   D. Both A & B
8. **In the elicitation process, the developers discuss with the client and end users and know their expectations for the software.**  
   A. Organizing requirements  
   B. Requirement gathering  
   C. Negotiation & discussion  
   D. Documentation
9. **The process to gather the software requirements from the client, analyze and document them is known as…..**  
   A. Software system analyst  
   B. User interface requirements  
   C. Requirement elicitation process  
   D. Requirement engineering process

**10. The interviews held between two persons across the table is**..  
 A. Written  
 B. Non-structured  
 C. One-to-one  
 D. Group

**11**. **The computer-based system can have a profound effect on the design that is chosen and also the implementation approach will be applied.**  
 A. Behavioural elements  
 B. Flow-oriented elements  
 C. Scenario-based elements  
 D. Class-based elements

**12**. **Information systems is concerned with..**

1. Systems where software is used as a controller in some broader hardware system
2. Processing information which is held in some database.
3. Combination of A and B
4. None

**13**. **Embedded systems is concerned with..**

1. Systems where software is used as a controller in some broader hardware system
2. Processing information which is held in some database.
3. Combination of A and B
4. None

**14**. **Command and control systems is concerned with..**

1. Systems where software is used as a controller in some broader hardware system
2. Processing information which is held in some database.
3. Combination of A and B
4. None

**15**. **The requirements document describes:**

* 1. The services and functions which the system should provide
  2. The constraints under which the system must operate
  3. Overall properties of the system i.e.. constraints on the system’s emergent properties
  4. All of the above

**Question No: 02** **(5)**

State what the project you have selected for your SRS document is required to do and the constraints under which it is required to operate

**Question No: 03 (10)**

With respect to the project you have selected for your SRS document, write a two to three (2-3) page paper in which you:

1. Create a Software Requirement Specification (SRS) that includes the following:

1. A detailed description of both user and system requirements. At least four (4) user requirements and four (4) system requirements should be provided.
2. A detailed description of both functional and non-functional requirements. At least four (4) functional requirements and four (4) non-functional requirements should be provided.

2. Develop a use case diagram to summarize the functional requirements of the system through the use of Microsoft Visio or its open source alternative.

Good Luck ☺