



**Bangladesh University of Business and Technology (BUBT)**  
**Department of Computer Science and Engineering**

**Final Examination: Summer 2020**  
**Course Code: CSE 327 Course Title: Software Engineering**  
**Intake:38 Section:03 Shift: Day**

**Marks – 40**

**[Answer all the questions]**

1. (a) Assume that your company “**Aqoua**” is designing a Social Media Project on client demand. There the client will sent a request to the content server to access protected resources. Only the authenticated users can access through the application. Depending on the above scenario design a sequence diagram by finding the necessary objects and their interactions. 5
- (b) Discuss how the context model is linked with defining the system architecture by providing a real life example. (Except weather information system). 5
2. (a) In implementation phase, 5  
“*We will reuse as much as possible in system level*” and  
“*Previous version of the demo software should be deleted as soon as a new version is available*”.  
Do you agree with these statements? Defend your answers by providing enough explanation.
- (b) Suppose you are a team member of SQA team of an organization. Your job is to check the “*code quality*”. Now discuss which attributes you will check to fulfill your task and how you measure the values of each attributes. 5
3. (a) When you build a new software project you find the errors with given percentage (EDL-10%) (IET-30%) (IID-4%) (PLT-46%) (HCI-10%). By following pareto principle, which errors should you solve? How Six-sigma will affect your process? 5
- (b) Explain why the testing process is not completely depends on the development team and what approaches you can take to maintain quality in software testing. 5

4. (a) As a software project manager what will be your approach for the completion of validation testing.

Choice 1: “Done testing by representative group of end users in controlled environment”

5

Choice 2: “Release a beta version in uncontrolled environment”

- (b) Discuss why is it important to draw a flow graph notation from the design or coding? How you decide the independent paths from the flow graph.

5