

MID SEMESTER EXAMINATION

March-2020

SE202 SOFTWARE ENGINEERING

Time: 3:00 Hours

Max. Marks: 30

Note: All questions are compulsory.
Assume suitable missing data, if any.

- 1 [a] Differentiate between Program and software? (3)
 [b] List out requirement elicitation techniques. Which one is most popular and why? (4)
 [c] What is the purpose of SRS document? (2)
 [d] Compute the function point value for a project with the following information domain characteristics.
 Number of user inputs = 24
 Number of user outputs = 65
 Number of user enquiries = 12
 Number of files = 12
 Number of external interfaces = 4
 Assume that all complexity adjustment values are moderate. (4)
 [e] Why is the sum of μ_p and τ_p in COCOMO model not equal to 1? (2)

2 Discuss the spiral model. What are the advantages and disadvantages of spiral model? (3)

3 [a] More and more applications are available, provided for example by transport operators such as railway companies, metropolitan or regional transportation authorities, that provide real-time information to users when disruptions occur in their networks. Typically, however, these applications provide generic information, in a "one size fits all" approach, where every user receives the same notifications.

The goal of the project is to develop a system that allows users to receive targeted, personalized information only when their routes of interest are affected by the disruptions, and only at the right time (for example, a disruption that occurs in a metro line when the user is out of town is of no interest to the user). The students are expected to identify one or more

- (e) Find the names of all employees who live in the same city and on the same street as do their managers.
 - (f) Find the names of all employees in this database who do not work for First Bank Corporation.
 - (g) Find the names of all employees who earn more than every employee of Small Bank Corporation.
 - (h) Assume the companies may be located in several cities. Find all companies located in every city in which Small Bank Corporation is located.
 - (i) Modify the database so that Jones now lives in Newtown.
 - (j) Give all employees of First Bank Corporation a 10 percent salary raise.
- (10)