Software Engineering 1 Quiz (Group 1) Time: 30 min. Mark: 10

Name: ……..…… Department: …… Section No: …….

Q1: Choose the correct answer [6 Marks]

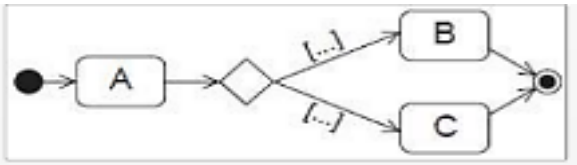
1. Parallel flows are illustrated in activity diagrams using fork and join
(A) True (B) False

2. Which of these software engineering activities are not a part of software processes?
(A) Software specification (B) Software validation
(C) Software dependence (D) Software development

3. ……. are effective techniques for eliciting requirements from stakeholders who interact directly with the system.
(A) Scenarios (B) Use cases
(C) Ethnography (D) Interviews

4. Requirements can be refined using
(A) The waterfall model (B) Prototyping model
(C) The reuse-oriented model (D) The incremental model

5. You are given the following activity diagram, which of the following action sequences are possible during one execution of the activity diagram?



(A) A → C (B) A → B → C
(C) A → B (D) A → C → B

Q2: State the main activities of requirements engineering process? **[4 Marks]**

Software Engineering 1 Quiz (Group 1) Time: 30 min. Mark: 10

Name: ……..…… Department: …… Section No: …….

Q1: There are many different types of software applications. Specify the type of each of the following applications: **[6 Marks]**

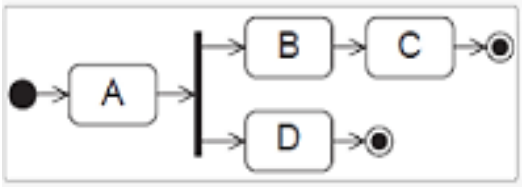
a) Systems that collect data from their environment using sensors.

b) Systems that are developed by scientists and engineers to model physical situations.

c) Software control systems that control and manage hardware devices.

d) Periodic billing systems, such as phone billing systems and salary payment systems.

e) You are given the following activity diagram, which of the following action sequences are possible during one execution of the activity diagram?



(A) A → B → C (B) A → B → D
(C) A → D (D) A → B → C → D

Q2: State the main activities of the process of prototype development? **[4 Marks]**

Software Engineering 1 **Quiz (Group 1)** **Time: 30 min.** **Mark: 10**

Name: ……..…… Department: …… Section No: …….

Q1: For each of the following situations, identify the approach: ***plan-driven or agile*** **[6 Marks]**

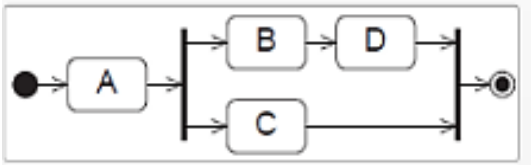
a) When the delivery time is not a problem.

b) Used for large systems engineering projects where a system is developed at several sites.

c) Lower risk of overall project failure.

d) The system needs a very detailed specifications and design before moving to implementation.

e) You are given the following activity diagram, which of the following action sequences are possible during one execution of the activity diagram?



(A) A → B → C → D (B) A → B → D
(C) A → C (D) A → B → D → C

Q2: State the types of non-functional requirements? **[4 Marks]**

CS (2, 4)

Software Engineering 1 **Quiz (Group 1)** **Time: 30 min.** **Mark: 10**

Name: ……..…… Department: …… Section No: …….

Q1: Choose the correct answer **[6 Marks]**

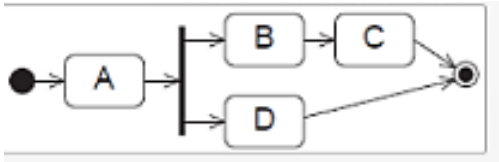
1. Agile Software Development is based on
(A) Incremental development (B) Iterative development
(C) Linear development (D) Both A and B development

2. …….. help discover implicit system requirements that reflect the actual ways that people work.
(A) Interviews (B) Ethnography
(C) Use cases (D) Scenarios

3. Use case diagrams show the order of the use cases' execution?
(A) True (B) False

4. If requirements are easily understandable and defined then which model is best suited?
(A) Prototyping model (B) Incremental development
(C) Waterfall model (D) None of them

5. You are given the following activity diagram, which of the following action sequences are possible during one execution of the activity diagram?



(A) A → B → C (B) A → B → D
(C) A → D (D) A → B → D → C

Q2: State the main activities of the waterfall model of the software development process? **[4 Marks]**