

## 2019 级 OOAD 月考 I 2021.10.19

- 一、Briefly explain following concepts or questions (5 points each)
- 1、why architecture characteristics are important to software design?
  - 2、what is Domain model?
  - 3、what are input for software design ?
  - 4、why do we need to find Actors as the first step during analysis?
  - 5、what is the main tasks in Inception phase of UP?
  - 6、what is Polymorphism?
  - 7、what does LRG( lower representational gap) mean?
  - 8、To iterate, we start with solid but not complete requirements analysis. In order to pick 10% from those high-level list: which rules should we follow?
- 二、According to following problem description, draw a domain model:
- 1、draw the domain model with UML class notation without operation (20)
  - 2、describe 2 classes with CRC notation . (15)
  - 3、describe an Operation contract (you can define a usecase and a system operation) (15)
  - 4、List 2 architecture characteristics( that is , non-functional requirements) may be take into account during design? Why (give out a short explain, 对应下列的需求序号)? (10)
- 描述：一家全国连锁的面包店希望开启在线订购业务
  - 用户量
- 1、目前数千，也许有一天可达到百万级别
- 需求
- 2、用户将会下订单，然后系统给定一个取面包的时间，并展示一个去商店的路线（商店必须集成多个包含交通信息的外部地图服务）
  - 3、如果商店提供送货服务，则分配司机把包子送到用户手中
  - 4、移动设备可访问性
  - 5、提供全国每日促销 / 特价
  - 6、提供当地每日促销 / 特价
  - 7、接受在线付款、当面付款以及交货时付款。可以是现金、支付宝、微信、信用卡、储蓄卡等