



UNIVERSITY OF THE PUNJAB

Fifth Semester – 2019

Examination: B.S. 4 Years Program

Roll No.

PAPER: Object Oriented Analysis and Design
Course Code: IT-307 Part – II

MAX. TIME: 2 Hrs. 45 Min.
MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q2: Give short answers

(5*4=20)

- 1) Write briefly about inheritance and explain the types of inheritance.
- 2) Write about static and dynamic binding.
- 3) Differentiate between unified method and unified modeling
- 4) Define aggregation and composition with examples?
- 5) What is UML? Why we use it in OOAD?

Q3: Give answers to the following questions.

(3*10=30)

- 1) What are design patterns? Why we use them? Explain any three design patterns with relevant examples.
- 2) Write a detailed note on **Encapsulation, inheritance, polymorphism and abstraction.**
- 3) Define **object oriented development approach** and **component based development approach.** Compare them, write similarities and differences between them.