**PAPER: Object Oriented Analysis and Design**     **TIME ALLOWED: 30 mins.**
**Course Code: IT-307**     **MAX. MARKS: 10**

Attempt this Paper on this Question Sheet only.
## OBJECTIVE TYPE

1. Choose the correct Answer.     (10×1=10)

1) Which artifact is NOT an input to Analysis and Design?
   A) use-case model     B) glossary
   C) supplementary specification     D) vision

2) During analysis an architect is concerned about _____.
   A) technology     B) deployment
   C) implementation     D) behavioral

3) What services can be requested from a class, which define the behavior of the class?
   A) operations     B) attributes
   C) names of classes     D) stereotypes

4) What are the components of a structured class?
   A) messages, connectors, and roles     B) ports, roles, and threads
   C) roles, ports, and connectors     D) attributes, roles, and ports

5) Which of the following views are part of the RUP "4+1 views" Model? (Choose three)
   A) Logical View     B) Operational View
   C) Use-Case View     D) Implementation View

6) A use case diagram is used model -------------- of the system?
   A) Structure     B) Behavior
   C) Organization     D) None of them

7) A Class diagram shows relationship between/among _____.
   A) Classes     B) Interfaces
   C) Collaboration     D) All of These

8) During Use Case Analysis, which UML diagrams should you use when allocating use-case behavior to classes?
   A) sequence and communication diagrams     B) use-case and activity diagrams
   C) sequence and activity diagrams     D) class and composite structure diagrams

9) The method of design encompassing the process of object oriented decomposition and a notation for depicting both logical and physical and as well as static and dynamic models of the system under design is known as:
   A) Object- Oriented Programming     B) Object- Oriented Design
   C) Object- Oriented Analysis     D) None of the mentioned

10) What is the programming style of the object oriented conceptual model?
   A) Invariant relationships     B) Algorithms
   C) Classes and objects     D) Goals, often expressed in a predicate calculus.

# UNIVERSITY OF THE PUNJAB

**Fifth Semester    2017**
**Examination: B.S. 4 Years Programme**

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

TIME ALLOWED: 2 hrs. & 30 mins.
MAX. MARKS: 50

**Attempt this Paper on Separate Answer Sheet provided.**
## SUBJECTIVE TYPE

Q 2. Give Short Answers.                                        (10×2=20)

1. What is an object? Give an example. Give the characteristics of object oriented system?

2. What is inheritance? Discuss types of inheritance with example?

3. Differentiate between Multilevel and Multiple Inheritance?

4. When we use publicly derived inheritance and privately derived inheritance? Explain with examples?

5. Differentiate between linear and iterative process modeling approaches with examples?

6. Define aggregation and composition with examples?

7. What is the use of system sequence diagram and list the relationships used in class diagram?

8. Explain the relationships that are possible among the classes in the UML representation with your example?

9. Give the use cases that can be used to generate the test cases for the Bank ATM application?

10. Whether unified method and unified modeling language are same or different?

Q3. Give Answers of the following Questions.                   (3×10=30)

1. Make the use case, class and object diagrams of a Hospital Management System which should handle the in-patient, out-patient information through receptionist. Doctors are allowed to view the patient history and give their prescription. There should be an information system to provide the required information?

2. Compare object oriented development approach and components based development approach?

3. What are design patterns? Why we use them. Explain any three design patterns with relevant examples?

**PAPER: Introduction to Sociology (SS)**  **TIME ALLOWED: 15 Mints.**

**Course Code: IT-314   Part – I (Compulsory)**  **MAX. MARKS: 10**

## Attempt this Paper on this Question Sheet only.

**Please encircle the correct option. Each MCQ carries 1 Mark. This Paper will be collected back after expiry of time limit mentioned above.**

### Question – 1: MCQ's (1 Mark X 10 Questions = 10 Marks)

1. Survey means:
   (a) Overlooking
   (b) Observation
   (c) Organizing social data
   (d) None of these

2. A stimulus response condition between two persons is called :
   (a) Exchange
   (b) Dialogue
   (c) Interaction
   (d) None of these

3. When two or more persons interact with each other they form"
   (a) Community
   (b) Group
   (c) Society
   (d) None of these

4. A Socially accepted behavior is called:
   (a) Folkway
   (b) Social Norm
   (c) More
   (d) None of these

5. Who can be taken as early pure sociology among the social thinkers?
   (a) Auguste comte
   (b) IbSn-e-khuldun
   (c) Durkheim
   (d) None of these

6. Who called sociology "social Physics"
   (a) Wilfred
   (b) Auguste comte
   (c) Herbet Spencer
   (d) None of these

7. Who said man is a social animal:
   (a) Aristotle
   (b) Plato
   (c) Socrates
   (d) None of these

8. Max Weber focused on the idea of:
   (a) Communism
   (b) Symbolic interactionism
   (c) Functionalism
   (d) None of these

9. Sociology originated as a separate discipline in:
   (a) 1836
   (b) 1837
   (c) 1838
   (d) None of these

10. who used the analogy of living organism for society"
    (a) Max weber
    (b) C.W. Mill
    (c) Auguste Comete
    (d) Herbert spencer

# UNIVERSITY OF THE PUNJAB

Roll No. ................

**Fifth Semester    2018**
**Examination: B.S. 4 Years Programme**

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

TIME ALLOWED: 30 mins.
MAX. MARKS: 10

**Attempt this Paper on this Question Sheet only.**
## OBJECTIVE TYPE

Q1: Choose the correct Answer.                                              (10*1 = 10)

1) Abstraction is classified into _____ types
   A) 4           B) 3
   C) 2           D) 1

2) A Class diagram shows relationship between/among _____
   A) Classes                    B) Interfaces
   C) Organization               D) None of them

3) What is the programming style of the object oriented conceptual model?
   A) Invariant relationship     B) Algorithms

   C) Classes and objects        D) Goals, often expressed in a predicate calculus

4) 9) _____ is the property that distinguishes an active object from one that is not active.
   a) Persistence        b) Typing
   c) Aggregation        d) Concurrency

5) Single inheritance, multiple inheritance, and Aggregation comes under _____
   a) Modularity    b) Typing
   c) Hierarchy     d) None of the mentioned

6) What is that concept in type theory in which a single name may denote objects of many different classes that are related by some common super class referred to _____
   a) Homomorphism        b) Type Checking
   c) Polymorphism        d) Generalization

7) Superclass represents _____ abstractions
   a) Generalized abstractions    b) Specialization abstractions
   c) Both                        d) None of the mentioned

8) In which of the following mechanisms, types of all variables and expressions are not known until runtime
   a) Strong typing                 b) Weak Typing
   c) Static Binding/ early binding  d) Dynamic Binding/ late binding

9) The method of design encompassing the process of object oriented decomposition and a notation for depicting both logical and physical and as well as static and dynamic models of the system under design is known as:
   a) Object- Oriented Programming    b) Object- Oriented Design
   c) Object- Oriented Analysis       d) None of the mentioned

10) During analysis an architect is concerned about _____

   a) Technology          b) deployment

   c) Implementation      d) behavioral