Code No: R05212101 **R05** **Set No. 2**

II B.Tech I Semester Examinations,November 2010
OBJECT ORIENTED ANALYSIS AND DESIGN THROUGH UML
Aeronautical Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Illustrate sequence diagram and collaboration diagram for modeling flow of control by time and flow of control by organization respectively.
   (b) Enumerate the properties of a well-structured interaction. [12+4]
2. (a) Define polymorphism. What are the various polymorphism schemes? Explain them briefly.
   (b) Define UML. What is round-trip engineering?
   (c) Briefly explain the following:
      i. collaboration
      ii. use case
      iii. component
      iv. active class. [6+4+6]
3. (a) Draw class diagram for use interface classes in the functions menu and explain
   (b) Draw a component diagram for the library system and explain
   (c) Draw a class diagram of business objects in the design model and explain [6+5+5]
4. (a) Explain the UML's structural diagrams briefly.
   (b) Consider the classes shape, rectangle, circle, polygon and square. Depict the relationships in UML notation as a diagram.
   (c) Enumerate the steps to model different views of a system. [6+4+6]
5. (a) What area various parts of a transition. Explain briefly.
   (b) Define event and signal. What are the four kinds of events modeled by UML? [10+6]
6. (a) Draw a sequence diagram that shows how a GUI interacts with other objects. Explain.
   (b) Explain the features of both the kinds of interaction diagrams and compare and contrast them. [8+8]
7. (a) With reference to class diagrams, enumerate the steps to reverse engineer.
   (b) Enumerate the steps to model logical database schema.
   (c) What is round trip engineering? Contrast it with reverse engineering. [6+8+2]

8. (a) Enumerate the steps to model the following:
   i. Adaptable systems
   ii. Executable release
   iii. Source code
   iv. client/server system.
   (b) What are the characteristics of deployment diagrams? [13+3]

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Code No: R05212101 **R05** **Set No. 4**

II B.Tech I Semester Examinations,November 2010
OBJECT ORIENTED ANALYSIS AND DESIGN THROUGH UML
Aeronautical Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Draw a sequence diagram that shows how a GUI interacts with other objects. Explain.
   (b) Explain the features of both the kinds of interaction diagrams and compare and contrast them. [8+8]
2. (a) Define polymorphism. What are the various polymorphism schemes? Explain them briefly.
   (b) Define UML. What is round-trip engineering?
   (c) Briefly explain the following:
      i. collaboration
      ii. use case
      iii. component
      iv. active class. [6+4+6]
3. (a) Illustrate sequence diagram and collaboration diagram for modeling flow of control by time and flow of control by organization respectively.
   (b) Enumerate the properties of a well-structured interaction. [12+4]
4. (a) Enumerate the steps to model the following:
      i. Adaptable systems
      ii. Executable release
      iii. Source code
      iv. client/server system.
   (b) What are the characteristics of deployment diagrams? [13+3]
5. (a) What area various parts of a transition. Explain briefly.
   (b) Define event and signal. What are the four kinds of events modeled by UML? [10+6]
6. (a) Explain the UML's structural diagrams briefly.
   (b) Consider the classes shape, rectangle, circle, polygon and square. Depict the relationships in UML notation as a diagram.
   (c) Enumerate the steps to model different views of a system. [6+4+6]
7. (a) With reference to class diagrams, enumerate the steps to reverse engineer.

(b) Enumerate the steps to model logical database schema.

(c) What is round trip engineering? Contrast it with reverse engineering. [6+8+2]

8. (a) Draw class diagram for use interface classes in the functions menu and explain

(b) Draw a component diagram for the library system and explain

(c) Draw a class diagram of business objects in the design model and explain [6+5+5]

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Code No: R05212101 **R05** **Set No. 1**

II B.Tech I Semester Examinations,November 2010
OBJECT ORIENTED ANALYSIS AND DESIGN THROUGH UML
Aeronautical Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Enumerate the steps to model the following:
   i. Adaptable systems
   ii. Executable release
   iii. Source code
   iv. client/server system.
   (b) What are the characteristics of deployment diagrams? [13+3]
2. (a) Draw class diagram for use interface classes in the functions menu and explain
   (b) Draw a component diagram for the library system and explain
   (c) Draw a class diagram of business objects in the design model and explain [6+5+5]
3. (a) Explain the UML's structural diagrams briefly.
   (b) Consider the classes shape, rectangle, circle, polygon and square. Depict the relationships in UML notation as a diagram.
   (c) Enumerate the steps to model different views of a system. [6+4+6]
4. (a) What area various parts of a transition. Explain briefly.
   (b) Define event and signal. What are the four kinds of events modeled by UML? [10+6]
5. (a) Draw a sequence diagram that shows how a GUI interacts with other objects. Explain.
   (b) Explain the features of both the kinds of interaction diagrams and compare and contrast them. [8+8]
6. (a) Define polymorphism. What are the various polymorphism schemes? Explain them briefly.
   (b) Define UML. What is round-trip engineering?
   (c) Briefly explain the following:
   i. collaboration
   ii. use case
   iii. component
   iv. active class. [6+4+6]

7. (a) With reference to class diagrams, enumerate the steps to reverse engineer.
   (b) Enumerate the steps to model logical database schema.
   (c) What is round trip engineering? Contrast it with reverse engineering. [6+8+2]

8. (a) Illustrate sequence diagram and collaboration diagram for modeling flow of control by time and flow of control by organization respectively.
   (b) Enumerate the properties of a well-structured interaction. [12+4]

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Code No: R05212101 **R05** **Set No. 3**

II B.Tech I Semester Examinations,November 2010
OBJECT ORIENTED ANALYSIS AND DESIGN THROUGH UML
Aeronautical Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Draw a sequence diagram that shows how a GUI interacts with other objects. Explain.
   (b) Explain the features of both the kinds of interaction diagrams and compare and contrast them. [8+8]
2. (a) Draw class diagram for use interface classes in the functions menu and explain
   (b) Draw a component diagram for the library system and explain
   (c) Draw a class diagram of business objects in the design model and explain [6+5+5]
3. (a) Explain the UML's structural diagrams briefly.
   (b) Consider the classes shape, rectangle, circle, polygon and square. Depict the relationships in UML notation as a diagram.
   (c) Enumerate the steps to model different views of a system. [6+4+6]
4. (a) Enumerate the steps to model the following:
      i. Adaptable systems
      ii. Executable release
      iii. Source code
      iv. client/server system.
   (b) What are the characteristics of deployment diagrams? [13+3]
5. (a) Illustrate sequence diagram and collaboration diagram for modeling flow of control by time and flow of control by organization respectively.
   (b) Enumerate the properties of a well-structured interaction. [12+4]
6. (a) With reference to class diagrams, enumerate the steps to reverse engineer.
   (b) Enumerate the steps to model logical database schema.
   (c) What is round trip engineering? Contrast it with reverse engineering. [6+8+2]
7. (a) Define polymorphism. What are the various polymorphism schemes? Explain them briefly.
   (b) Define UML. What is round-trip engineering?
   (c) Briefly explain the following:
      i. collaboration

ii. use case
iii. component
iv. active class. [6+4+6]

8. (a) What area various parts of a transition. Explain briefly.
(b) Define event and signal. What are the four kinds of events modeled by UML? [10+6]

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