K17P 0206

Reg. No. : ....

Name : ....

Fifth Semester M.C.A. Degree (Regular) Examination, January 2017
(2014 Admission)
MCA 5C24 : OBJECT ORIENTED MODELING AND DESIGN

Time : 3 Hours　　　　　　　　　　　　　　　　　　　　　Max. Marks : 80

Instructions : 1) Answer **any ten** questions from Part – **A. Each** question
　　　　　　　　carries **3** marks.
　　　　　　　2) Answer **all** questions from Part – **B. Each** question carries
　　　　　　　　10 marks.

PART – A

Note : Answer **any ten** questions. Each question carries **3** marks.

1. What is the relationship between abstraction, information hiding and encapsulation ?

2. Define object with an example.

3. What is a use case and Actor ?

4. Explain the generalization with the partial event hierarchy for keyboard events.

5. What is a package ?

6. Give the deployment diagram for hardware artifacts.

7. What do you mean by class cohesion ?

8. Give the design criteria governing interacting levels of encapsulation.

9. What do you mean by rings of operation ?

10. List the advantages of using the components.

11. Write a short note on principle of closed behavior.

12. Write a note on window-navigation diagrams.　　　　　　　　　　　　　**(10×3=30)**

P.T.O.

PART – B

Answer **all** questions. **Each** question carries **10** marks.

13. a) With example, explain class hierarchy.

    OR

    b) Explain the message structure and the role of objects in messages.

14. a) What is aggregation and composition ? Give their respective UML notations, with an example.

    OR

    b) What is an activity diagram ? Explain the special constructs for activity models.

15. a) Explain the deployment diagram for software constructs.

    OR

    b) Explain architecture modeling with packages and deployment diagrams.

16. a) Write a note on :

    i) Principle of type conformance

    ii) Domains of object classes.

    OR

    b) Write a note on :

    i) Encumbrance

    ii) State space and behaviour of class.

17. a) Write a note on :

    i) Light weight and heavy weight components

    ii) Mix-in classes.

    OR

    b) Explain in detail, the various aspects of components.   (5×10=50)

_____