**BCS-051**

# BACHELOR OF COMPUTER APPLICATIONS

01873

### Term-End Examination

### June, 2014

## BCS-051 : Introduction to Software Engineering

*Time : 3 hours*　　　　　　　　*Maximum Marks : 100*

　　　　　　　　　　　　　　　　*(Weightage : 75%)*

*Note :* 　Question no. **1** is **compulsory** and  carries **40** marks. Attempt **any three** questions from the rest.

1.　(a)　Develop SRS for "Railway Reservation　**25** System". Make necessary assumptions. Follow IEEESRS format.

　　(b)　Define the terms "Coupling" and　**10** "Cohesion". Write the differences between them.

　　(c)　What SDLC model will you use for　**5** "Railway Reservation System" ? Justify your answer.

2.　(a)　Draw first three levels of DFDs for a　**10** "Railway Reservation System". Make assumptions, wherever necessary.

　　(b)　Define the terms "System Testing" and　**10** "Integration Testing".

3. (a) Draw GANTT chart for the development of "Railway Reservation System". **10**

(b) Draw Use Case Diagram for a system of your choice. Include a short note on the system chosen. **10**

4. (a) Develop a test case for any testing technique for "Railway Reservation System". **10**

(b) Write a short note on Software Metrics. **10**

5. (a) Draw structure chart for any system of your choice. Indicate the title of the system chosen. **10**

(b) Write a short note on Software Quality Assurance. **10**

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