BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Examination

December, 2020

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.

- (a) What is SRS? Explain properties of good SRS. Develop SRS for an 'online shopping system.' Make necessary assumptions using IEEE SRS format.
 - (b) Draw use case diagram for 'Online Shopping System.'

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- (c) Describe the Waterfall model. Explain the nature of problems for which Waterfall model of software development is suitable.
 Also briefly explain demerits of Waterfall model.
- (a) Draw first two levels of DFDs for 'Online Shopping System'. Make necessary assumptions.
 - (b) Draw a Gantt chart for the development of an 'Online Shopping System'.10
- 3. (a) What is acceptance testing? Briefly explain alpha and beta testing.
 - (b) Define the terms 'Coupling' and 'Cohesion'. Briefly explain the meaning of 'highly cohesive' system. Is there any relation between 'coupling' and 'cohesion'? Explain briefly.
- 4. (a) Write a short note on Software Metrics. 10
 - (b) Draw structure chart for 'Online Shopping System'.10

- 5. (a) What is data dictionary? How is data dictionary created? Explain with the help of an example.
 - (b) What is class diagram? Draw a class diagram for 'Online Shopping System'. 10

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