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BCS-051

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED) Term-End Examination June, 2022

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) Develop an SRS for 'Online Banking System'. Make necessary assumptions. Follow IEEE SRS format. 15

P. T. O.

 (b) What is function oriented design of software system ? Explain its advantages and disadvantages.

 (c) Which software development model is suitable for developing 'Online Examination System' ? Justify your selection. Also explain the selected model.

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- (d) What is coupling ? How is it different from cohesion ?5
- (e) Briefly explain cost of software quality. 5
- (a) Draw the context diagram and first level
 DFD for 'Online Banking System'. 10
 - (b) What is software maintenance ? Explain any two types of software maintenance in detail.
- (a) Draw use-case diagram for 'Library Management System'. Make necessary assumptions. 10
 - (b) Draw GANTT chart for development of 'Online Banking System'. 10

- 4. (a) Draw structure chart for online shopping system. 10
 - (b) Explain unit testing and module testing with the help of suitable example for each.

10

- 5. (a) Write short notes on the following : 10
 - (i) PERT chart
 - (ii) Project Planning
 - (b) What is verification ? How is it different from validation ? Briefly explain any *four* principles of software testing. 10

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