

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)**

Term-End Examination

00063

December, 2018

**CS-70 : INTRODUCTION TO SOFTWARE
ENGINEERING**

Time : 3 hours

Maximum Marks : 75

*Note : Question number 1 is **compulsory**. Answer any **three** questions from the rest.*

1. Perform the tasks given, after reading the case of an "Online shopping solution (Business to Consumer) for an Apparels Company" that gives choice to the users to select branded apparels for children and adults. It offers a wide variety of garments (formal, casual, semi-casual, traditional, etc.). Also, offers discount on selected goods. Users can place the orders and pay electronically online through a variety of e-Payments.
 - (a) Draw Context Level DFD, 1st Level and 2nd Level DFDs. 7
 - (b) Prepare SRS document. List assumptions, if any. 5
 - (c) Design ER diagram. Follow conventions. 7

- (d) Draw a Gantt chart. 4
- (e) Specify the software engineering paradigm which suits this application and describe the various phases of the paradigm. 7
2. (a) Discuss the concept of modularity with respect to the question number 1 given above. 7
- (b) What is Feasibility Study ? Why is it important for system development ? How does cost-benefit analysis contribute to the feasibility study ? 8
3. (a) With the help of an example, explain the cyclomatic complexity. 7
- (b) Define Risk Management. Discuss any six risk management techniques. 8
4. (a) Explain various phases of Waterfall Model. 8
- (b) Explain the principles of coupling and cohesion. 7
5. Write short notes on the following : $3 \times 5 = 15$
- (a) LOC Based Estimation
- (b) Importance of CASE Tools
- (c) Software Quality
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