

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

--	--	--	--	--	--	--	--	--	--

BCA (IV - Sem.)

Even Semester Examination - 2016

SOFTWARE ENGINEERING

e : 3 Hours]

[Maximum Marks :70]

Note : Attempt all questions.

Q1. Attempt the following question: (5×3=15)

- (a) Design a Home Page for On-line Hording System is advertisement.
- (b) Explain two types of emergent properties.
- (c) What is prototype? Explain the process prototype development with diagram.
- (d) With diagram explain rational unified process.
- (e) Explain four dimensions of dependability

Q2. Write a short note on the following: (5×3=15)

- (a) Ethnography

- (b) Difference between Activity and State Chart Diagram
- (c) Scenarios
- (d) COCOMO II model
- (e) Integration testing

Q3. Attempt any two of the following: (2x10=20)

- (a) Give software requirement document (IEEE standard).
- (b) A system need to be designed for a departmental store dealing in consumer items. Members enjoy credit facility and can purchase items as and when he or she needs them. Store has several counters and one can almost get all kinds of consumer items after visiting these counters. He becomes members by paying initial membership amount and get the credit cards. He has to pay his outstanding on quarterly basis. System generate alert to these members. Defaulters are not allowed to purchase items until the default amount is cleared. Consider the different aspects of the above problem and model them appropriately.
 - (i) Draw 1st level DFD.

- (ii) Draw Databases of the Departmental store.
- (iii) Draw bill and Membership Form.
- (c) ~~Explain the principles~~ of class based component design in detail.

Attempt **any two** of the following: (2x10=20)

- (a) Explain various tests conducted during coding phase of software engineering.
- (b) Elaborate on spiral model in detail.
- (c) State the need for Risk Management and explain the activities under Risk Management.

----X----