

VVM's
Shree Damodar College of Commerce and Economics, Margao-Goa
S.Y.B.C.A, Semester- IV, End Semester Examination, April 2016
SOFTWARE ENGINEERING (BCA-401)

Duration: 2 hours

Marks-50

Instructions :

1. All questions are compulsory
2. Start each new question on fresh page
3. Figures to the right indicate maximum marks
4. Support your answers with relevant diagrams.

Q.1 Define the following in one or two sentences

Marks (1 X 10)

- a) Software Engineering
- b) Software Process
- c) Silver bullets
- d) Predictability of a software process
- e) Non-Functional requirements
- f) Actors in Use Cases
- g) Unified modeling language
- h) Agile Methodologies
- i) SRS
- j) Activation box in sequence diagram

Q.2 a) What are the operational characteristics of a good software?

(2)

- b) What is the purpose of SRS documents.

(3)

- c) It is required to build a software for Online Examination for Civil Services .Which process model would you propose ? Why ?

(5)

Q.3 a) Differentiate between aggregation and composition.

(2)

- b) Draw an Use case Diagram for the Hospital Management System .The hospital must provide basic facilities like patient admission /discharge, operations, billing etc . State your assumptions.

(3)

- c) Write short notes on Class Diagrams ? Specify the syntax for describing the attributes and member functions.

(5)

Q.4 a) What are the different types of control structures used in a sequence diagram ?

(2)

- b) Draw State Chart diagram to depict the various states of a desktop computer from Power On to Shutdown.

(3)

- c) Write short notes on Activity diagrams. How is it different from a flowchart?

(5)

Q.5 a) Write short notes on project scheduling.

(2)

- b) What is the purpose of carrying out feasibility studies?

(3)

- c) Write short notes on BrainStorming. Specify the different steps involved in finalising the features of the software to be developed.

(5)
