



GV-2573

Seat No. 70

B. C A. (Sem. V) Examination

November / December - 2013

BCA - 503 : Software Engineering

Time : 3 Hours]

[Total Marks : 70

- 1** (a) Do as directed : **6**
- (i) What is Software Engineering ?
 - (ii) Define Embedded software.
 - (iii) Define Artificial intelligence software.
 - (iv) What is system software ?
 - (v) Define term software quality.
 - (vi) Define: Portability in SE.
- (b) Give answer in detail : (any three) **12**
- (i) Explain principle of software engineering.
 - (ii) Explain waterfall model.
 - (iii) Explain difference between Software Engineering and Computer Science.
 - (iv) Explain Spiral Model.
- 2** (a) Do as directed : **5**
- (i) Define measurement with example.
 - (ii) Define function oriented approach.
 - (iii) What is functional requirement ?
 - (iv) Write software benefits.
 - (v) Write static design model.

- (b) Give answer in detail. (any three) 12
- (i) Explain characteristics of good and bad SRS documents.
 - (ii) Explain role of metrics and measurement.
 - (iii) Explain role of management in software development.
 - (iv) Explain problem partitioning and strategy of design.
- 3 (a) Do as directed: 6
- (i) Define information hiding.
 - (ii) Define module size in programming style.
 - (iii) Define Alpha testing.
 - (iv) Define white box testing.
 - (v) Define programming practices.
 - (vi) Define driver and stub
- (b) Give answer in detail: (any three) 12
- (i) Explain functional testing.
 - (ii) Explain equivalence class partitioning.
 - (iii) Explain test plan and sample testing cycle.
 - (iv) Explain structured programming.
- 4 (a) Do as directed : 5
- (i) Define term Software Quality Assurance Plan (SQAP)
 - (ii) What is risk ? List out its type.
 - (iii) Define software reverse engineering.
 - (iv) Define verification and validation.
 - (v) Define software reliability and quality.
- (b) Give answer in detail : (any three) 12
- (i) Explain COCOMO model.
 - (ii) Software quality factors.
 - (iii) Explain process of SCM.
 - (iv) Explain characteristics of CASE tools.