



KG-5428 Seat No. 1836
B. C. A. (Sem. V) Examination
November / December – 2014
BCA-503 : Software Engineering

Time : 3 Hours]

[Total Marks : 70

- 1 (a) Do as directed. 6
- (1) What is system Engineering ?
 - (2) Define Artificial intelligence software.
 - (3) What is system software ?
 - (4) Define software development approach.
 - (5) What is portability in software engineering.
 - (6) Define embedded software.
- (b) Give the answer. (any two) 12
- (1) Explain problem and principle of SE ?
 - (2) Explain waterfall model in detail.
 - (3) Explain characteristics of software.
- 2 (a) Do as directed. (any two) 5
- (1) Define Metrics and Measurement.
 - (2) Explain design pattern.
 - (3) Explain SRS.

(b) Explain in detail. (any two) 12

- (1) Explain role of Management in software Development.
- (2) Difference between function oriented and object oriented approach. 6
- (3) What is Requirement engineering ? Explain its type in detail. 5

3 (a) Do as directed. 6

- (1) Define Alpha testing. 1
- (2) Define driver and stub. 1
- (3) Define coding. 1
- (4) Define failure. 1
- (5) Define fault. 1
- (6) Define module size in programming style.

(b) Give the answer in detail. (any two) 12

- (1) Explain sample testing cycle.
- (2) Explain black-box testing in detail. 5
- (3) Explain test, cases, scripts and scenarios. 4

4 (a) Do as directed : (any two) 5

- ✓ (1) Define verification and validation. 2
- (2) Define SQAP. 3

- 2 (3) Define project management.
- (4) Define types of software management.
- (5) Define software reverse engineering.

(b) Answer the following. (any two) 12

- (1) Explain COCOMO Model in detail.
 - 3(2) What is Risk ? Explain software risk with risk management and schedule estimation.
 - 3(3) Explain process of SCM in detail.
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