

1208
(6 pages)

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B.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2014

Fifth Semester

Computer Application – Main

Paper VI — SOFTWARE ENGINEERING

(For those who joined in July 2008 to 2011)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. _____ should be continued throughout the life of a software system
- (a) requirements analysis
 - (b) design
 - (c) modeling
 - (d) programming

2. Name the programming language that needs a virtual machine
- (a) C
 - (b) C++
 - (c) JAVA
 - (d) C#
3. _____ described the meaning of all terms used in the domain
- (a) Domain analysis
 - (b) Glossary
 - (c) Verification
 - (d) Design
4. _____ should not take place at early interviews they should be used primarily for information gathering
- (a) analysis
 - (b) design
 - (c) prototyping
 - (d) none
5. The current custodian of UML standard is the
- (a) Object model group
 - (b) Object management group
 - (c) Object definition group
 - (d) none
6. A _____ diagram is a way of expressions dynamic information about a system
- (a) sequence
 - (b) collaboration
 - (c) class
 - (d) state

7. The entire record of the series of design decisions becomes a _____

- (a) design decision document
- (b) design document
- (c) decision document
- (d) design protocol

8. A measurable value you wish to attain

- (a) goal
- (b) objective
- (c) output
- (d) none

9. An extreme and easily understood kind of failure is

- (a) an outright crash
- (b) incorrect output
- (c) infinite loop
- (d) none

10. A _____ condition is a situation where there normally exists one or more data items to process, but sometimes there are none

- (a) null
- (b) singleton
- (c) non-singleton
- (d) none

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 250 words.

11. (a) Discuss on the nature of software.

Or

(b) Explain how projects can be built on a framework.

12. (a) How will you manage changing requirements?

Or

(b) Explain the starting point for software projects.

13. (a) What is UML? Explain.

Or

(b) What constitutes a good model? Explain briefly.

14. (a) Discuss on design as a series of decisions.

Or

(b) Write notes on parts of a system.

15. (a) Testing is like detective work – Discuss.

Or

(b) Explain the strategy for choosing what to test.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 600 words.

16. (a) Explain the types of Software and their differences.

Or

- (b) Explain Software Engineering as a branch of engineering profession.

17. (a) Explain Domain Analysis in detail.

Or

- (b) Perform a domain analysis in order to develop a new better telephone response and dispatch system for medical emergencies.

18. (a) Explain Associations and multiplicity.

Or

- (b) How will you analyze and validate association? Explain.

19. (a) Explain the different types of cohesion.

Or

- (b) Explain the different types of couplings.

20. (a) Explain effective and efficient testing.

Or

- (b) Explain equivalence classes and combinations of equivalence classes.