

(6 pages)

Reg. No. :

Code No. : 20992

Sub. Code : GMCS 51/
GMSE 51

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2015.

Fifth Semester

Computer Science — Main

SOFTWARE ENGINEERING

(For those who joined in July 2012 and afterwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The steps by step procedure is also called _____.

- (a) procedure
- (b) program
- (c) algorithm
- (d) process

2. _____ risk derive from the software or hardware technology.

- (a) Project
- (b) Product
- (c) Business
- (d) Technology

3. A _____ is a collection of interrelated components.

- (a) Software
- (b) Program
- (c) System
- (d) None of these

4. The second step in software development is _____.

- (a) requirement
- (b) analysis
- (c) design
- (d) code

5. _____ diagram show object class and their association.

- (a) Use case
- (b) Sequence
- (c) Class
- (d) Activity

6. A _____ is representation of the logical relationship among individual elements.

- (a) Abstraction
- (b) Data structure
- (c) Modularity
- (d) Refinement



7. How many types of user interfaces are available?
(a) 2 (b) 3
(c) 4 (d) 5
8. _____ testing combines all the modules of software.
(a) Black box
(b) White box
(c) Basis path
(d) Integration
9. The software reusability is achieved by _____.
(a) inheritance
(b) encapsulation
(c) abstraction
(d) data hiding
10. Which cost estimation model is better one?
(a) COCOMO
(b) Water fall
(c) Expert Judgment
(d) Prototype

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Describe evolutionary model.

Or
(b) List out changes in software development process.
12. (a) Write short notes on requirements gathering.

Or
(b) Explain any one of system development technique.
13. (a) Explain structured analysis.

Or
(b) Describe structured design.
14. (a) Explain user interface design.

Or
(b) What is meant by debugging?



15. (a) Explain any one of estimating technique.

Or

- (b) Write about ISO 9000 for software quality.

SECTION C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain prototyping model.

Or

- (b) Describe metrics for project size estimation.

17. (a) Describe coupling and cohesion.

Or

- (b) Describe software requirement and specification.

18. (a) Explain the concept of detailed design.

Or

- (b) Explain use case model.

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19. (a) Describe coding and testing.

Or

- (b) List out the characteristics of good user interface.

20. (a) How to maintain software? Explain.

Or

- (b) Describe CASE support in software life cycle.

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