

(6 pages)

Reg. No. :

Code No. : 20992

Sub. Code : GMC
GMC

B.Sc. (CBCS). DEGREE EXAMINATION, APRIL

Fifth Semester

Computer Science/Software Engineering – Me

SOFTWARE ENGINEERING

(For those who joined in July 2012-2015)

Time : Three hours

Maximum : 70

- PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. A _____ S/W is developed according to the specification drawn up by one or more customers.
(a) Customized (b) Outsourced
(c) Professional (d) System
2. Unit testing is carried out in which phase of the waterfall model?
(a) Implementation (b) Testing
(c) Design (d) Maintenance

During requirement analysis, the analyst needs to identify and resolve

- (a) Anomaly
- (b) Inconsistency
- (c) Incompleteness
- (d) All the above

_____ is a measure of the functional strength of a module.

- (a) Cohesion
- (b) Coupling
- (c) Layered design
- (d) Good design

A _____ lists the purpose of all data items and the definition of all composite data items in terms of their component data item.

- (a) Data Dictionary
- (b) DFD
- (c) Context Diagram
- (d) Data Definition List

Which diagram shows the structural and behavioural aspects explicitly

- (a) Collaboration
- (b) Sequence
- (c) Object
- (d) Activity

Widgets in user interface technology stands for

- (a) Window objects
- (b) Orpaned window
- (c) Orpaned window
- (d) Wily midiget

8. An/A _____ denotes an incorrect behavior exhibited by the

- (a) Error (b) Mistake
(c) Failure (d) Bug

9. ISO _____ standard applies to organizations involved only in installation and testing products.

- (a) 9000 (b) 9001
(c) 9002 (d) 9003

10. Which of the following can be reused?

- (a) Design (b) Code
(c) Test cases (d) Reports

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words

11. (a) What is data flow oriented software development methodology? Discuss.

Or

(b) What is meant by project size? Discuss popular metrics to measure it.

12. (a) State and explain the desirable characteristics of a good SRS document.

Or

(b) With example, enumerate different types of cohesion that a module in a design might exhibit.

13. (a) Discuss the basic building blocks needed to design a structure chart.

Or

(b) What is method overriding? Illustrate with example.

14. (a) Compare the relative advantages of command language, menu based and direct manipulation interfaces.

Or

(b) Write about white box testing.

15. (a) With neat block diagram explain the CASE environment.

Or

(b) How to estimate the maintenance cost?

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

Each answer should not exceed 600 words.

16. (a) Describe different phases of spiral model. What are the advantages and disadvantages of a spiral model?

Or

- (b) Write in detail about project planning.

17. (a) Describe the process to create a DFD model of software from its source code.

Or

- (b) What is interaction diagram? Describe types with example.

18. (a) What is the formal technique? Explain detail.

Or

- (b) How to characteristics a good software design?

19. (a) Describe window management system detail.

Or

- (b) Identify the debugging approaches and activities.

10. (a) Discuss the main requirements of ISO 9001.

Or

(b) Write elaborately about reuse approach.
