

E 6239



Reg. No.....

Name.....

B.C.A. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

Sixth Semester

Core Course—SOFTWARE ENGINEERING

(Prior to 2013 Admissions)

Time : Three Hours

Maximum Weight : 25

Section A (Objective Type Questions)

Answer all questions.

*A bunch of **four** questions carries a weight of 1.*

1. _____ is not an evolutionary model.
 - (a) Prototyping.
 - (b) Spiral.
 - (c) Waterfall.
 - (d) Incremental
2. _____ is an evolutionary model.
 - (a) Prototyping.
 - (b) Agile.
 - (c) Waterfall.
 - (d) All of the them.
3. A working model is called _____.
 - (a) Instruction.
 - (b) Program.
 - (c) Prototype.
 - (d) Function.
4. RAD stands for _____.
 - (a) Rational Application Development.
 - (b) Rapid Application Development.
 - (c) Requirements Application Development.
 - (d) Reverse Application Development.





- II. 5. Software does not wear out. True/False.
- 6 Modularity is good for a program. True/False.
- 7 Alpha testing is done at the customer's premises. True/False.
- 8 Debugging and testing are one and same. True/False.
- III. 9 _____ is a measure of software size.
 - (a) LOC.
 - (b) Function Points.
 - (c) Object Points.
 - (d) All of the above.
- 10 DFD stands for _____.
 - (a) Debugging flow diagram.
 - (b) Development Flow Diagram.
 - (c) Design flow diagram.
 - (d) Data Flow Diagram
- 11 CMM stands for _____.
 - (a) Cost Maturity Model.
 - (b) Capability Maturity Model.
 - (c) Class Maturity Model.
 - (d) Constructive Maturity Model.
- 12 _____ testing is done at the customer's premises.
 - (a) Unit Testing.
 - (b) Integration Testing.
 - (c) Alpha Testing.
 - (d) Beta Testing.
- IV. 13 Spiral model is used for _____ projects.
- 14 Acceptance testing is done by the _____.
- 15 _____ is a measure of reliability.
- 16 _____ testing is used to evaluate the performance of the developed software.

(4 × 1 = 4)





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Section B (Short Answer Questions)

*Answer any **five** questions.*

Each question carries 1 weight.

- 17 What is the difference between product and process ?
- 18 What is COCOMO ?
- 19 What are the advantages of prototyping ?
- 20 What is software reliability ?
- 21 Give an example test case of boundary value analysis.
- 22 What is a test case ? Give examples.
- 23 What is validation testing ?
- 24 What is debugging ?

(5 × 1 = 5)

Section C (Short Essays/Problems)

*Answer any **four** questions.*

Each question carries 2 weights.

- 25 Explain waterfall software development model in detail.
- 26 Explain various types of evolutionary process models.
- 27 What are the components of the IEEE format for software design document ?
- 28 Describe various attributes of the McCall's software quality model.
- 29 With an example describe the equivalence class testing technique.
- 30 With diagrams, describe data flow testing ?

(4 × 2 = 8)

Turn over





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Section D (Essay Questions)

*Answer any **two** questions.*

Each question carries 4 weights.

- 31 Describe in detail the various steps in software requirement analysis and specification so as to bring out a SRS document ?
- 32 What is software design ? What are its objectives ? Explain various types of design.
- 33 Explain in detail the process maturity levels of the CMM with various KPAs.

(2 × 4 = 8)

