

8. Write short notes on any two of the following:

(a) Regression Testing

(b) Sequence Diagram

(c) Iterative Waterfall Model

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(4) UL(7) — Soft. Engg.

C3+117
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2020(A)

Time : 3 hours

Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any five questions.

1. (a) What do you understand by black box and white box testing ? Show the difference between black box and white box testing.
(b) Describe the Non-functional requirement in software development.
2. (a) What do you understand by UML ? Describe its uses in design phase.
(b) What are the differences between verification and validation in software development ?

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(Turn over)

3. (a) Describe the difference between Alpha testing and Beta testing.
- (b) A software company has won the contract to build the Software for an embedded system. Assume that 200000 lines of code is required for the software. Compute the Effort, Time and Persons required to develop the software when basic COCOMO estimation model is used.
4. (a) What do you understand by Agile methodology in the software project development? What are the different types of agile models? How these models handle the challenges faced in traditional software development model?
- (b) Define the terms MTTR, MTBF and MTTF in software maintenance. Write down the formula to calculate these values. How it is helpful in software maintenance?

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(2)

Contd.

5. Explain the different cohesion and coupling method used in software development. Also discuss the types of cohesion and coupling are good for software development and why?
6. (a) Discuss functional and non-functional requirements in software engineering in detail.
- (b) What do you understand by feasibility study? What are the different types of feasibility analyses done before going through any project? Discuss them with example.
7. (a) Whether any development life cycle models are suitable for any type of project? Justify your answer.
- (b) Describe the different phases involve in prototype model and evolutionary model.

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(3)

(Turn over)