

V Semester B.C.A. Degree Examination, Nov./Dec. 2017 (2016-17 and Onwards) (CBCS) (F + R) **BCA 502 : SOFTWARE ENGINEERING**

Time: 3 Hours Max. Marks: 100

Instruction: Answerall Sections.

SECTION - A

I. Answer any ten questions. Each question carries two marks.

- 1) Define system.
- 2) What are the two types of software products?
 - 3) What is system decommissioning?
 - 4) Mention two advantages of prototype model. 24) at Write a note on object openied design concept.
 - 5) Define cohesion.
- 6) Define object and class.
 - 7) What are the characteristics of GUI?
- 8) Define SRS.
 - 9) Define Risk.
 - 10) Differentiate between verification and validation.
 - Define reliability.
 - 12) What is a test case?

SECTION - B

b) Explain the contents of test plan terrelate.

II. Answer any five questions. Each carries five marks.

 $(5 \times 5 = 25)$

- 13) Explain waterfall model with its advantages and disadvantages.
- 14) What are volatile requirements? Explain the classification of volatile requirements.
- 15) Explain the different phases of system design process with a diagram.
- 16) What is fault tolerance? Explain the two approaches to software fault tolerance.
- 17) Differentiate between black box and white box testing.



- 18) Explain the quality characteristics of design.
- 19) Describe different requirement validation checks.
- 20) Explain types of software maintenance.

SECTION - C

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IV. Answer any one question. Each carries ten marks. (1×10=10)

15) Explain the different obtains of system design process with a diagram

(3) Explain waterfall model with the aquanto

- 26) Explain COCOMO model in detail.
- 27) Explain system engineering process with a neat diagram.