



SS – 683

V Semester B.C.A. Degree Examination, November/December 2018  
(CBCS) (F + R) (2016-17 and Onwards)  
**COMPUTER SCIENCE**  
**BCA 502 : Software Engineering**

Time : 3 Hours

Max. Marks : 100

**Instruction : Answer all Sections.**

**SECTION – A**

I. Answer **any ten** questions.

**(10×2=20)**

- 1) What is software product ? Name two types of software product.
- 2) Define system engineering.
- 3) What is feasibility study ?
- 4) Define prototype model.
- 5) What is coupling ? Name two types of coupling.
- 6) What are OOD and OOP ?
- 7) What are the advantages of GUI ?
- 8) Define Test case.
- 9) Differentiate between verification and validation.
- 10) Define equivalence class partitioning.
- 11) Define quality assurance.
- 12) Define project management.

**SECTION – B**

II. Answer **any five** questions.

**(5×5=25)**

- 13) Write a note on risk management.
- 14) Describe system procurement process.
- 15) Explain the IEEE structure of SRS document.
- 16) Explain evolutionary and throw-away prototyping.
- 17) Describe design principles.
- 18) Write a note on reliability growth modeling.
- 19) Explain the contents of test plan.
- 20) Write a note on quality control.

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## SECTION – C

- III. Answer **any three** questions. (3×15=45)
- 21) a) Explain the different phases of SDLC.  
b) Explain system design process with a diagram. (8+7)
- 22) Explain the requirement engineering process. 15
- 23) a) Explain function oriented design.  
b) Explain different styles of user system interaction. (8+7)
- 24) a) Explain different types of cohesion.  
b) Explain software reuse. (8+7)
- 25) a) Describe clean room software development process.  
b) Explain different types of software maintenance. (8+7)

## SECTION – D

- IV. Answer **any one** question. (1×10=10)
- 26) Explain spiral model with a neat diagram. Mention its merits and demerits.
- 27) Explain COCOMO model in detail.
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