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.

P.T.O.

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.
