65522

V Semester B.C.A. Degree Examination, March/April 2024
(CBCS) (Repeaters)
COMPUTER SCIENCE
BCA 502T : Software Engineering

Time : 3 Hours Max. Marks : 100

Instruction : *Answer* ***all*** *Sections.*

SECTION – A

I. Answer **any ten** questions. **Each** question carries **two** marks : **(10×2=20)**

1) Define generic software product with an example.
2) What is COTS ?
3) What is technical feasibility ?
4) What is 4GL ?
5) What is coupling ?
6) What are OOA and OOP ?
7) What is user interface prototyping ?
8) Define error and fault.
9) Define cyclometic complexity.
10) What is verification and validation ?
11) What is project planning ?
12) What is quality assurance ?

SECTION – B

II. Answer **any five** questions. **Each** question carries **five** marks : **(5×5=25)**

13) Explain software process visibility.
14) Write a note on system environment.

P.T.O.

15) Explain the phases of Requirement Elicitation and Analysis Process.

16) Explain throw away prototyping process.

17) Explain the design objectives.

18) Explain aggregation with example.

19) Write a short note on GUI characteristics.

20) Explain any two testing strategy with a diagram.

SECTION – C

III. Answer **any three** questions. **Each** question carries **fifteen** marks : **(3×15=45)**

21) a) Explain waterfall model with neat diagram. **8**
b) Explain system procurement process. **7**

22) a) Explain different requirement validation techniques. **8**
b) Explain different types of cohesion with example. **7**

23) a) Explain fault tolerance architecture and recovery block with diagram. **8**
b) Explain Reliability Metrics. **7**

24) a) Write a note on function oriented design concept. **8**
b) Explain user interface design process with a diagram. **7**

25) a) Explain Glassbox and Functional testing with diagram. **8**
b) Explain the contents of test plan. **7**

SECTION – D

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

26) Explain COCOMO Model with neat diagram.

27) Explain spiral model with a neat diagram and advantages.
