

V Semester B.C.A. Degree Examination, March 2023
(Y2K14 – CBCS) (F + R)
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) Differentiate between generic and customised software products.
- 2) What are the ethical and professional responsibilities of software engineer ?
- 3) What are the human factors in software engineering ?
- 4) Define prototyping in software process.
- 5) What is cohesion ?
- 6) What are the concurrent objects ?
- 7) What do you mean by interface evaluation ?
- 8) Define software reliability.
- 9) What is reliability growth modeling ?
- 10) What is statistical testing ?
- 11) What is the purpose of test case ?
- 12) What is feasibility study ?

SECTION – B

II. Answer any five questions.

(5×5=25)

- 13) Explain about risk management.
- 14) Discuss in detail about Software Requirement Specification (SRS).



- 15) What are the design strategies ?
- 16) Write a short note on domain specific architecture.
- 17) What is exception handling ? Explain.
- 18) Explain about fault avoidance and tolerance.
- 19) Discuss about clean room software development.
- 20) Explain about software cost estimation.

SECTION – C

- III. Answer **any three** questions. (3×15=45)
- 21) a) With a neat diagram explain spiral model. 10
b) What are the social & organisational factors ? 5
 - 22) a) Discuss in detail about requirement engineering process. 10
b) What is content model ? Explain. 5
 - 23) a) What are the prototyping techniques ? 10
b) Write a short note on design quality. 5
 - 24) a) Explain object oriented design with example. 8
b) What is coupling ? Explain different types of coupling in brief. 7
 - 25) a) What are the software reliability metrics ? 10
b) Briefly explain about types of testing. 5

SECTION – D

- IV. Answer **any one** question. (1×10=10)
- 26) Discuss about functional and non-functional requirements.
 - 27) Explain in detail about project management.
-