CS – 497

36

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).

P.T.O.

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 7 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.