

Paper Code : 21324

F-424

B.C.A. (Fifth Sem.) Examination, 2022-23

(New Course)

Paper-BCA-504

SOFTWARE ENGINEERING

Time : Three Hours] [Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Symbols used have their usual meanings.

1. (a) Describe the problem known as "Software-Crisis".
(b) "A software does not wear out". Justify this statement clearly.
2. (a) What is "SDLC"? Explain the spiral model of software development.
(b) How to develop "SRS-document"?

P.T.O.

3. (a) Illustrate qualities of any good software in detail.
(b) What are the data structure oriented methods of requirement analysis?
4. (a) Write in brief about the following terms :
(i) CASE Tools
(ii) PERT
(b) Write down the general principles of system investigations.
5. (a) What do you mean by "DFD"? Draw a DFD for "Tic-Tac-Toe" game.
(b) Describe the concept of test-cases. How to carry out Black-Box-Testing?
6. (a) What is reliability? Why it is necessary for any software to be of high-reliability?
(b) How end-user computing evolved? Explain.

21324-F-424

(2)

7. (a) Draw the life-cycle of an information system and describe in detail.
- (b) How verification is different from validation.
8. (a) Write down the role of software engineer. Describe various paradigms of software engineering.
- (b) Write short notes on any **two** of the following :
- (i) COCOMO - model
 - (ii) Types of testing
 - (iii) Software Maintenance