

Total No. of Questions : 8 | Total No. of Printed Pages : 3

**Paper Code : 21324**

**F-424**

**B.C.A. (Fifth Semester) Examination, 2021**  
**(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.**

- (a) What is the principal aim of the software engineering discipline? What does the discipline of software engineering discuss?
- (b) Explain software development life cycle model with example.

**(1)**

**P.T.O.**

**2. (a) Explain how do the use of software engineering principles help to develop software product cost-effectively and timely.**

**(b) What are the other component process in a software process? Describe the purpose of each.**

**3. (a) Differentiate between functional requirement and non-functional requirement.**

**(b) Take some quality attributes for the SRS and try to define some metrics for Quantifying.**

**4. (a) What is maintainability? Explain with reusability.**

**(b) What is modularity? Describe principle of software engineering.**

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**(2)**

5. (a) What is the life cycle of an information system? Explain phase of system.

(b) Explain fourth generation language with example.

6. (a) What is the limitation of GLS? Explain impact of 4GLS.

(b) Describe major influencing factors.

7. (a) What is case tools? Explain with deaf case tools.

(b) Describe system testing in details.

8. Write short notes on any four:

(a) Database

(b) Robustness

(c) Relational database

(d) PERT

(e) System review