Roll No. .... Total Printed Pages - 3

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B.C.A.(Part-III) Examination, 2022
(New Course)
Paper Fourth
SOFTWARE ENGINEERING
(304)

Time : Three Hours] [Maximum Marks:80

Note: Attempt any two parts from each question. All questions carry equal marks.

Unit - I

1. (a) What is software engineering? Discuss its features.

   (b) What is software requirement specification? why requirement specification is important in software designing?

   (c) Highlight specification tools in software engineering.

Unit - II

2. (a) Differentiate between cohesion and coupling with suitable examples.

   (b) What do you understand by design metrics? Explain briefly.

   (c) What is strength of Booch methodology?

Unit - III

3. (a) What are the three major data flow approaches?

   (b) What are the problems with E-R model?

   (c) What is the difference between coding and programming?

Unit - IV

4. (a) What are the three types of software testing? Explain in brief.

   (b) What is the purpose of Capability Maturity Model in relation to the systems process?

   (c) Why do we need software cost estimation?

Unit - V

5. (a) What are the challenges of software system integration?

(b) What are the challenges of developing software as a team?

(c) How do you estimate project timelines? Describe briefly.