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Roll No. ....

**E211**

**B.C.A. EXAMINATION, 2020**

(Fifth Semester)

(B Scheme) (Main & Re-appear)

(BCA)

BCA301B

PRINCIPLES OF SOFTWARE ENGINEERING

*Time : 2½ Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note** : Attempt *Four* questions in all. All questions carry equal marks.

(3)M-E211

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1. What is Software development life-cycle ?  
Make a detailed diagram of evolutionary model  
and what are its pros and cons ?
2. (a) What is resource allocation model ? What  
are various types of it ?  
(b) What is software configuration  
management ? Explain.
3. (a) Write short note on Data Dictionary and  
its utility in software requirement  
specification.  
(b) What are attributes of a good SRS ?  
Explain.
4. (a) What is a requirement ? What are the  
different methods of requirements  
gathering ?  
(b) Write short note on the types of  
cohesiveness in software engineering.
5. (a) What is a equivalence class ? How to  
determine equivalent classes ?  
(b) State and explain control based testing.

6. Discuss various techniques of black box testing in detail.
7. What is integration testing ? State it. Explain the types of it with the significance of stub and drivers in each type.
8. Write short notes on the following :
  - (a) Alpha and Beta testings
  - (b) Maintenance characteristics.