



41521/E210

Reg. No.

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V Semester B.C.A. 4 Degree Examination, Nov./Dec. - 2019

SOFTWARE ENGINEERING

(Regular)

Paper : BCA4

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) All sections are compulsory.
- 2) Draw neat diagrams whenever necessary.

SECTION - A

1. Answer all the **TEN** full questions: (10×2=20)

- a) What are any two challenges faced by software engineers?
- b) Define a process framework.
- c) What is the goal of requirement engineering? List the 3 main types of requirements.
- d) What are system models? Mention the various system model types.
- e) List any 4 characteristics of a good design.
- f) Define cohesion and coupling in component level design.
- g) What is the aim of Integration testing? List the types of Integration testing.
- h) What is debugging? List any 2 debugging strategies.
- i) What is a project risk and technical risk? Give an example for each.
- j) What is software quality control?

SECTION - B

Answer any **FOUR** questions of the following:

(4×5=20)

2. Explain the different categories of software.
3. Illustrate an activity diagram for a BANK ATM withdrawal use case.
4. Define an architectural style. Explain the Data centered architecture with a neat diagram.
5. Briefly explain any 5 Mc call's software quality factors.
6. What is the role of an SQA (Software quality assurance) group?

P.T.O.

**SECTION - C**

Answer any **FOUR** questions of the following:

(4×10=40)

7. Explain the following software process models with a neat diagram:
 - a) Incremental model
 - b) Prototyping model
 8. Elaborate in detail the structure of a requirements document or a SRS.
 9. Write in detail the golden rules to user interface design.
 10. Write short notes on following concepts with respect to software Measurement:
 - a) Size-oriented and Function-oriented metrics
 - b) Object-Oriented metrics.
 11. Explain in detail the RMMM plan in Risk management.
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