

**Code No. : C-396****Annual Examination - 2018****BCA Part - III****(BCA-304)****SOFTWARE ENGINEERING****Max.Marks : 100****Time : 3 Hrs.****Min Marks : 40**

**Note:** Section 'A' , containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

**Section-'A'**

**Very short answer type questions. Answer in one or two sentences (2x10=20)**

- Q.1 What is the need of software engineering?
- Q.2 Define Iterative model.
- Q.3 What is software metrics?
- Q.4 What is function oriented metrics?
- Q.5 What is SRS?
- Q.6 What is DFD?
- Q.7 What is partitioning?
- Q.8 What is abstraction?
- Q.9 What are the types of software testing?
- Q.10 What is test oracle?

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**Section-'B'**

**Short answer type questions with word limit 150-200**

**(6x5=30)**

Q.1 What is software engineering? What are software engineering problems?

**OR**

Explain water fall model in detail.

Q.2 How is Software Metrics helpful in project management?

**OR**

Explain function oriented metrics in detail?

Q.3 Explain the concept and need of SRS.

**OR**

What is a Context diagram? Mention its benefits.

Q.4 What is the principle of software design? Explain.

**OR**

What is meant by cohesion and coupling? Explain with example.

Q.5 What are the various objectives of software testing? Write along with its principle.

**OR**

What are various software maintenance practices that may appear in software product?

**Section-'C'**

**Long answer type questions with word limit 300-350**

**(10x5=50)**

Q.1 What are the various models of software processes? Explain linear sequential.

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**OR**

Explain spiral model with neat diagram.

Q.2 Explain project management techniques and list out its various phases.

**OR**

Differentiate between size-oriented metrics and function oriented metrics.

Q.3 Draw DFD of college management system.

**OR**

Explain software requirement and draw the structure of requirement document.

Q.4 A software module shall have low degree of coupling and high degree of cohesion. Justify.

**OR**

Explain Top Down and Bottom Up strategies in detail.

Q.5 Explain the different types of testing along with its advantages and disadvantages?

**OR**

List and explain different levels of testing done during the testing phase.

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