- 4. Explain the following :
 - (a) SRS Metrics
 - (b) Data Flow Diagrams
- 5. (a) What is coding ? Discuss coding standards and conventions followed while coding.
 - (b) What is module coupling ? How is it different from module cohesion ? Illustrate different types of coupling and cohesion.
- 6. Explain the following :
 - (a) Verification and Validation
 - (b) Software Design Approaches
- 7. (a) What is software testing ? How is testing important in software lifecycle ? Discuss the objectives of software testing.
 - (b) What is software maintenance ? What are its different types ? How are these achieved ? Illustrate.
- 8. (a) What are CASE tools ? What are various types of CASE tools ? Indicate their usefulness.
 - (b) Differentiate between the following :
 - (i) Software re-engineering and Reverse Engineering
 - (ii) Black-box and White-box testing.

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Bachelor of Vocation (Web Technology & Multimedia) 4th Semester

SOFTWARE ENGINEERING

Paper-402

Time Allowed—2 Hours] [Maximum Marks—100

- **Note** :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.
- 1. (a) What is software crisis ? What are the causes of software crisis ? How can it be overcome ? Illustrate.
 - (b) What do you mean by software lifecycle models ?Discuss the essence of software lifecycle models.
- 2. (a) What is cost estimation ? How COCOMO model is useful ? Illustrate its use for cost estimation.
 - (b) What are software project estimation techniques ? Illustrate the implementation of popular software project size estimation metrics.
- 3. (a) What is software requirement engineering ? How is it significant ? Illustrate.
 - (b) What is SRS document ? What are the main characteristics of a good SRS document ? What are its main components ? Illustrate their relevance.

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