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BMCI (2014 & Onwards) (Sem.-4) SOFTWARE ENGINEERING

Subject Code: BMCI-404 Paper ID: [72808]

Time: 3 Hrs. Max. Marks: 60

#### **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### **SECTION-A**

# 1. Answer briefly:

- a) What are the characteristics of software?
- b) What are the steps in planning a software project?
- c) Differentiate between size-oriented and process-oriented metrics.
- d) What is software equation?
- e) What are the objectives of requirement analysis?
- f) What is an ER diagram?
- g) What is the difference between physical and logical DFD?
- h) Can software be tested completely? Justify your answer.
- i) What is the difference between verification and validation?
- i) What is the difference between re-engineering and restructuring?

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### SECTION-B

- 2. What are the applications of software in everyday life? Discuss in brief.
- 3. What are the difficulties of estimating project costs? Discuss any one method of cost estimation.
- 4. Differentiate between White Box and Black Box techniques of designing test cases. Discuss Boundary Value Analysis in brief.
- 5. What is software re-engineering? Differentiate between reverse engineering and forward engineering.
- 6. Define CASE. What are the various categories of CASE tools?

## **SECTION-C**

- 7. What are software process models? Discuss the various process models in detail.
- 8. Discuss in detail the software design methodologies.
- 9. What are the objectives of software testing? Discuss the various testing strategies with examples.

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