Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

BMCI (2014 & Onwards)   (Sem.–4)
SOFTWARE ENGINEERING
Subject Code : BMCI-404
M.Code : 72808

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. 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) Reengineering

      b) Software sizing

      c) Project management

      d) Functional requirement

      e) Software equation

      f) Object-oriented design

      g) Testability

      h) Verification and validation

      i) System Testing

      j) Restructuring

SECTION-B

2. What is data flow diagram? Explain its usefulness in software design.

3. Discuss computer aided software engineering (CASE) with the help of suitable example(s).

4. What is difference between architecture design and data design? Discuss with the help of suitable example.

5. Explain the role of software metrics and measurement in software development.

6. Discuss the following with the help of suitable example :

   a) COCOMO Model

   b) Data Dictionary

SECTION-C

7. Explain the Waterfall model for software development with the help of block diagram.

8. What are the principles of good software design? Explain the difference between procedural design and architectural design.

9. What is meant by unit testing? What types of errors are detected during unit testing? Explain unit testing with the help of suitable example(s).

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.