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

Total No. of Questions : 09

PGDCA (Sem.–2ⁿᵈ) (2012 Batch)
SOFTWARE ENGINEERING
Subject Code : PDCA-203
Paper ID : [B0152]

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTION 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 has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

SECTION-A

l. **Write briefly :**

a) Define top down approach to software design.

b) Explain flowchart.

c) Explain data design.

d) What do you mean by unit testing?

e) Explain the various characteristics of software.

f) What is ER diagram?

g) Explain the term Fourth Generation Techniques.

h) What do you understand by software maintenance?

i) Differentiate between requirement and specification.

j) Explain structure chart.

SECTION-B

2) Discuss the various phases of software engineering life cycle.

3) What are the objectives of software project planning?

4) How can metrics be helpful in Software Process improvement?

5) Write at least five differences between Black Box Testing and White Box Testing.

6) Discuss the various steps involved in requirement analysis of software process.

SECTION-C

7) Explain the Waterfall model with an example. Write at least two disadvantages of the Waterfall model when compared with the Prototyping model.

8) Which are the techniques with which cost estimates of a project may be made? Explain the COCOMO model.

9) What do you mean by procedural design? How it is different from Object oriented design?