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Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (2014 & Onwards) (Sem.-2)

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**I. Write briefly :**

- a) Write about the advantages of prototype model.
- b) Explain software characteristics.
- c) What is data dictionary?
- d) What is the need of SRS?
- e) Differentiate between verification and validation.
- f) Write two disadvantages of the water fall model.
- g) What is ER-Diagram?
- h) Describe object oriented design.
- i) Define software risk.
- j) Why unit testing is required?

SECTION-B

- 2 Why software engineering is necessary for development of software's?
- 3 Explain the purpose of Data Flow Diagram in S/W development process.
- 4 Discuss the various phases of software engineering life cycle.
- 5 What is object oriented analysis & design? What are the advantages of using this technique?
- 6 Discuss the role of metrics in software engineering. Explain any two metrics with example.

SECTION-C

- 7 Name the various life cycle models. Explain the spiral model in detail.
- 8 What is estimation? Explain its role in S/W planning. Explain any one cost estimation model.
- 9 What is a good test plan? What are the different types of testing which are done? Compare black box testing and white box testing.