

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (2018 Batch) (Sem.-2)

SOFTWARE ENGINEERING

Subject Code : PDCA-203

M.Code : 50512

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 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) Name **any two** characteristics of software.
- b) Define Software applications.
- c) What is meant by Metrics?
- d) What is the data dictionary?
- e) Discuss briefly about Software Sizing.
- f) What is meant by fourth generation techniques?
- g) Explain testability.
- h) Comment on objective of software design.
- i) What is integration testing?
- j) Differentiate between verification and validation.

SECTION-B

2. Explain Waterfall Model.
3. Discuss Object Oriented Software Design.
4. Explain the concept of DFD.
5. Differentiate between White box and Black box testing cases.
6. Discuss the principles of Structured Analysis.

SECTION-C

7. Explain the following concepts :
 - a) Spiral model
 - b) Project Management
8.
 - a) Explain the ER diagram by taking an example.
 - b) Explain the principles of software design.
9. Discuss the following :
 - a) Verification and Validation.
 - b) The Software Equation.

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.