## OMO 2000 SHARE 17 2017

## SOFTWARE ENGINEERING

Paper: IT 605

Full Marks: 100

Time : Three hours

## The figures in the margin indicate full marks for the questions.

Answer any five questions out of seven.

- 1. (a) What is software development life cycle model?
  - (b) Briefly discuss about the different phases of waterfall model of software development.
  - (c) Why waterfall model is not used by software industries?
- 2. (a) Identify the problems that would arise if someone tries to develop a large software product without using software engineering principles.

Contd.

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(c)	Briefly discuss about basic COCOMO.
	MINIMANIANI CREVITOR . 5
(a)	Discuss about the computation of function point metric.
(b)	What are the different techniques used for project estimation? Briefly discuss any one of them.  3+7
(a)	What is collection diagram? Explain with an example. 2+6
(b)	What are the different types of user interphases? Explain with example.
(c)	What is Black-Box Testing?
(a)	What is Data Flow Diagram (DFD)? Explain it with the example of Personal
	Library System. 6

How Delphi cost estimation technique

overcome the problems of expert

judgement technique?

(b)

3.

4.

5.

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(b)	Explain in details, what are the	steps
	that follow in transforming a	
	model into structured chart.	

- (c) What are the different relationship exist between different classes in an ODD technique? 7
- 6. (a) What is a Legacy Software Product? What is Common Object Request Broker Architecture (CORBA)?

2+4=6

(b) Schematically draw the architecture of a CASE environment and explain how the different tools are integrated. What are the advantates of CASE tools?

6+8=14

- 7. (a) Briefly discuss about the different approaches adopted to perform integration testing. 10
  - (b) What are the differences between 5+5=10
    - (i) Black Box testing and White Box testing?
    - $\alpha$ -testing and  $\beta$ -testing? (ii)