	Utech
Name:	A
Roll No.:	To Date of Exercising and Explana
Invigilator's Signature :	

## CS/M.Tech IT(SE)/SEM-1/MSE-103/2010-11 2010-11 SOFTWARE ENGINEERING

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

## GROUP – A ( Multiple Choice Type Questions )

- 1. Choose the correct alternatives for any ten of the following:  $10 \times 1 = 10$ 
  - i) Project risk factor is considered in
    - a) waterfall model
- b) spiral model

c) CMM

- d) prototype model.
- ii) RAD stands for
  - a) Rapid Application Development
  - b) Repeated Application Development
  - c) Relative Application Development
  - d) Ready Application Development.

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- iii) The DFD depicts
  - a) flow of data
- b) flow of control
- c) both (a) & (b)
- d) none of these.
- iv) Estimation of software development effort for organic software in COCOMO is
  - a)  $E = 2.4 (KLOC)^{1.05} PM$
  - b)  $E = 3.4 (KLOC)^{1.06} PM$
  - c)  $E = 2.0 (KLOC)^{1.05} PM$
  - d)  $E = 2.4 (KLOC)^{1.07} PM$ .
- v) In function point analysis, number of complexity adjustment factors is
  - a) 10

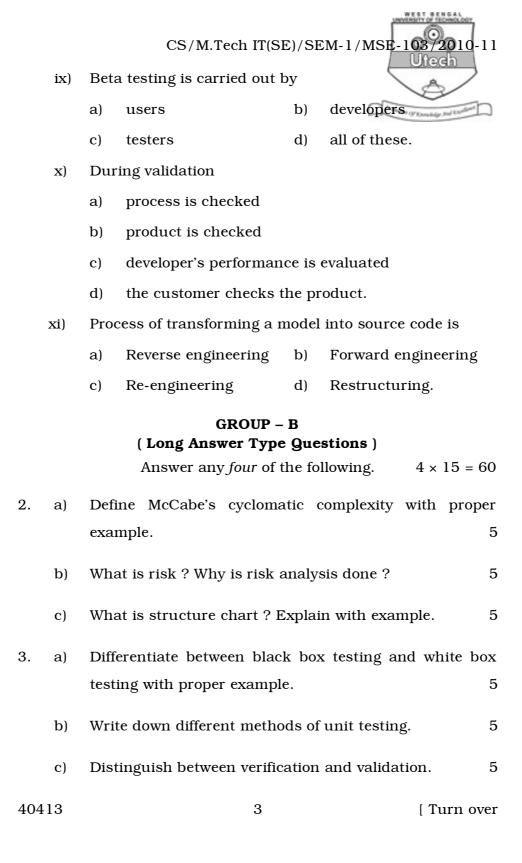
b) 20

c) 14

- d) 12.
- vi) Temporal cohesion means
  - a) cohesion between temporary variable
  - b) cohesion between local variable
  - c) cohesion with respect to time
  - d) coincidental cohesion.
- vii) Software mistakes during coding known as
  - a) failures
- b) defects

c) bugs

- d) errors.
- viii) Function testing is known as
  - a) structural testing
- b) behavioural testing
- c) regression testing
- d) none of these.



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4.	a)	What is data dictionary? Explain it with an example.	5
	b)	Write down the difference between cohesion & couplir with example.	1g 5
	c)	What is software reliability?	5
5.	a)	What is Software Quality Assurance?	5
	b)	What are code inspection and coding standards?	5
	c)	What is CASE TOOL? Explain with example.	5
6.	a)	Compare between GUI and Text based user interface.	5
	b)	Mention different characteristics of "Good use interface".	er 5
	c)	Compare between flowchart and structure-chart.	2
	d)	What is decision table, explain with example.	3
7.	a)	What are transform analysis and transaction analysis (	?
	b)	A project size of 200 KLOC is to be developed. Softward development team has average experience on similar type of project. The project schedule is not very tight Calculate the "Effort", "Development time", "Average staff size" and "Productivity of the project".	ar ıt.
	c)	Explain different kind of feasibility study.	4

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