DIT 223 – SOFTWARE ENGINEERING

EXAM

EXAM	
DURATION: 2 HOURS	DATE: APRIL 2016
SECTION A (30 Marks) Question One	
(a) Define the term software engineering and explain the characteristics of software (6 marks)	
(b) Explain using the help of a diagram the spiral model.	(8 marks)
(c) Explain requirements that software's should have.	(8 marks)
(d) What are System Models and what is their importance in software engineering?(4 marks)	
(e) Explain prototype model in software development cycle. necessary to use it.	What is its strength and when is it (4 marks)
SECTION B: (20 Marks Each) Instructions: Answer any two questions	
Question Two:	
(a) What is a prototype? Explain different types of prototype	
(b) Explain the waterfall model in software development.	(10 marks)
Question Three	
(a) Differentiate between Top down and Bottom Up design	<u> </u>
engineering (b) What are CASE tools? Describe any four CASE building	(2 marks) g blocks (4 marks)
(c) What is SDLC (Software Development Life Cycle?)	(2 Marks)
(d) Explain various phases of Software Development Life C	` '
Question Three	
(a) Discuss the software quality management.	(10 marks)
(b) Discuss the software testing techniques.	(10 marks)
Question Four	
(a) Company A has approached you to design for it the software for running its activities.	
Explain the steps involved.	(10 marks)
(b) Discuss what you understand by the term software validation	ation. (10 marks)
Question Five	
a) Documentation is an important part of software engineer	
documentation used in software development.b) Explain the special methods of non functional software t	(10 marks) esting. (10 marks)
o) Explain the special methods of non-functional software t	comg. (10 marks)