PARUL UNIVERSITY FACULTY OF IT & COMPUTER SCIENCE MCA, Winter 2017 – 18 Examination

Seme Subje Subje	ster: 3 E ect Code: 05201202 T ect Name: Software Engineering T	Date: 27/12/2017 Time: 10:30 am to 1:00 pm Total Marks: 60
Instructions [,]		
1 All	auestions are compulsory	
2 Fig	ures to the right indicate full marks	
3 Ma	ke suitable assumptions wherever necessary	
4 Sta	rt new question on new page	
	it new question on new page.	
0.1	Answer the following:	
Δ .	Write short answers.	(05)
	1. Define Software Engineering.	(00)
	2. What is Agile Process?	
	3 List out any four fundamental design concepts	
	4 Define Cohesion	
	5 Define Scrum	
R	Answer the following: (Fach of 01 marks)	(10)
р,	1 RAD stands for	(10)
	a) Relative Application Development b) Rapid Application Development	nt
	a) Relative Application Development (b) Rapid Application Development (c) Panid Application Decument (c) None of the mentioned	nt
	2 Which one of the following models is not allow to change after software	development?
	a) Ruild & Fix Model b) Prototyping Model a) PAD Model d) We	torfall Model
	a) Build & Fix Model b) Flototyping Model c) KAD Model d) wa	
	b) Dertability (a) Timeliness (b) Visil	aility
	4 How mony phases are there in Serum 2	onity
	4. How many phases are mere in Scrum?	
	a) Two b) Three c) Four d) Zero	
	5. Coupling is a quantative indication of the degree to which a module	
	a) can be written more compactly	
	b) focuses on just one thing	
	c) is able to complete its function in a timely manner	
	d) is connected to other modules and the outside world	
	6. Agility is defined as the ability of a project team to respond rapidly to a cl	hange. True/False?
	7. A Use-case actor is always a person having a role that different people ma	ay play. True/False?
	8. Traceability is not considered in Requirement Analysis. True/False?	
	9. Full form of CASE is	
	10. Which of the following is NOT the phase consisting on spiral model of sc	oftware development?
	a) Planning b) Design c) Engineering d) F	Risk-Analysis
Q.2	Answer the followings	
	1. Define DFD. Explain any 2 components of DFD.	(03)
	2. List out review techniques. Explain Formal Technical Review.	(03)
	3. What is Black Box Testing? Explain ANY ONE Black Box Testing Tech	nique. (03)
	4. Discuss any 2 E-R diagram notations.	(02)
	5. What is Software Risk? List out the risk principles that are involved in a p	project. (02)
	6. Compare Alpha Testing Vs. Beta Testing in short.	(02)
Q.3	Answer the following. (Any three)	(15)
	1. Differentiate between software characteristics and hardware characteristic	CS.
	2. Discuss Six Sigma Software Engineering.	
	3. What is Software Quality Assurance? Explain its elements.	
	4. Discuss SQA Goals.	
Q.4	Answer the following.	
Ā.	Explain W ⁵ HH Principle in short.	(05)
B.	Draw level-0 and level-1 DFD for Library Management System.	(10)
	ÖR	
B.	Draw Use case diagram for Lab Management System.	(10)