С		Reg. No. :										
Question Paper Code: 54804												
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019												
Fourth Semester												
Information Technology												
15UIT404 – SOFTWARE ENGINEERING METHODOLOGIES												
		(Regulati	on 2015))								
Duration: Three hours Maximum: 100 Marks Answer ALL Questions												
		PART A - (5 x	1 = 5 M	arks))							
1.	Arrange the followin process model. i.Planning ii.Construction iii.Communication iv.Deployment v. Modeling	ng steps in the linear	process	flov	v of	f sof	ťwar	e			CO	91- R
	(a) i, iii, v, ii, iv	(b) i, iii, v, ii, iv	c) i, v,	iii, ii	i, iv		(d) v,	i, iii	, ii, i	iv	
2.	Which one of the following is NOT desired in a good SoftwareCO2- RRequirement Specifications (SRS) document?(b) Non-Functional Requirements							2- R				
	(c) Goals of Implementation		(d) Algorithms for Implementation							n		
3.	In the context of mod combinations is desir	the context of modular software design, which one of the following CO3- R mbinations is desirable?										
	(a) High cohesion and	b) Hig	b) High cohesion and low coupling									
	c) Low cohesion and high coupling d) Low cohesion and low coupling											

4.	Mat Tes	ch the following testing class ting Class	CO4- R						
	A. (Condition coverage							
	B. E	B. Equivalence class partitioning 2. System testing							
	C. V	Volume testing	3. White-box testing						
	D. A	Alpha testing	ng 4. Performance testing						
	(a) /	A-2, B-3, C-1, D-4	C-1, D-4 (b) A-3, B-4, C-2, D-1						
	(c) <i>I</i>	A-3, B-1, C-4, D-2	2 (d) A-3, B-1, C-2, D-4						
5.	Con	Commitments to unrealistic time and resource estimates may result in							
	(a) l	Project delay (b) Problem	m elaboration (c) Quality work (d) Project success					
PART – B (5 x 3= 15 Marks)									
6.	Justify why agile development is considered to be a reasonable alternative to CO1- U conventional software engineering process.								
7.	Clas	ssify the seven significant task	CO2- U						
8.	Sun	marize the three golden rules	CO3- U						
9.	Dist	inguish between black box an	CO4- R						
10.	Disc	cuss about the people who inv	CO5- U						
		PA	RT – C (5 x 16= 80 Marks)						
11.	(a) (i) Explain the process model which is useful when staffing is unavailable for complete implementation.		CO1- U (8)						
	(ii) Discuss the prototyping paradigm in software process.			CO1- U (8)					
Or									
	(b)	Illustrate the process models narrowly defined software er	to be adopted when a specialized or agineering approach is chosen.	CO1-U (16)					
12.	(a)	(i) State the functional and banking website design with	non-functional requirements for the illustrations and justifications.	CO2- App (10)					
		(ii) Develop a use-case scena	rio for withdrawal from ATM	CO2- App (6)					
			Or						

- (b) Explain the different approaches followed in establishing the CO2-U (16) groundwork and requirement elicitation for understanding requirements.
- 13. (a) (i) Explain real time system. Summarize the design CO3-U (8) considerations for real time systems.

(ii) Explain the steps involved in architectural mapping using data CO3- U (8) flow.

Or

- (b) (i) Classify and brief different types of coupling. CO3- U (8)
 (ii) Demonstrate how to apply the user interface design steps CO3- App using a suitable example.
- 14. (a) Explain the top-down and bottom-up strategies of Integration CO4- U (16) testing.

Or

- (b) Describe Software Configuration Management features and SCM CO4- U (16) process in detail.
- 15. (a) Discuss the empirical estimation models for software cost CO5-U (16) estimation.

Or

(b) Explain in detail about the process of Software project scheduling CO5-U (16) and tracking the schedule.