ROLL NO	

Code: DC65/DC115

Subject: SOFTWARE ENGINEERING

DipIETE – CS (Current & New Scheme)

Time: 3 Hours

June 2019

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated. Choose the correct or the best alternative in the following: 0.1 (2×10) a. is a set of related activities that leads to the production of a software product. (A) Software Process **(B)** Software procedure **(C)** Software method **(D)** Software tool b. _____ are socio-technical computer-based systems that have been developed in the past, often using older or obsolete technology. (A) System Engineering (B) Legacy systems (C) Software engineering (D) Organizational processes for a system describe what the system should do. (A) Functional requirements **(B)** Non-Functional requirements (C) System requirements **(D)** Software requirements d. _____ can be used as a way of classifying stakeholders and other sources of requirements. (A) Scenarios **(B)** Use cases (C) Viewpoints **(D)** Interviewing e. _____ approach is one of the fundamental approaches to formal specification. (A) Interviewing (B) Arithmetic approach (C) Conventional approach (**D**) Algebraic approach _____ is perhaps the best known and most widely used of the agile methods. (A) RAD **(B)** XP (C) COTS **(D)** CAD _____ is the process of assessing the usability of an interface and checking that it meets user requirements. (A) Questionnaires (B) Observation

(C) Interface evaluation

(**D**) Prototyping

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	h is a process that locates and corrects the defects.				
	(/	A) Verification	(B) Validation		
	((C) Testing	(D) Debugging		
	i		urements made of a program in execution		
		A) Dynamic metrics	(B) Static metrics		
	((C) Quality metrics	(D) Software metrics		
	j		change proposals and that may be linked to a		
		ersion management system.			
		A) Change reporting	(B) change database		
	((C) Workflow system	(D) Form editor		
		Answer any FIVE Questions Each question ca			
Q.2	a D	iscuss in detail about Rational Uni		(8)	
Q.2	a. D	iscuss in detail about Rational On	neu process.	(0)	
	b. D	iscuss about emergent system prop	perties.	(8)	
Q.3			tional and nonfunctional requirements of		
	sy	stem? Explain with an example.		(8)	
	b. D	raw and explain the sequence diag	ram for ATM Withdrawal.	(8)	
Q.4	a. E	laborate on subsystem interface spe	ecification.	(8)	
	b. W	rite short note on RAD and Software	are prototyping.	(8)	
Q.5	a. W	rite short note on Client-Server are	chitecture.	(8)	
	b. E	xplain the layered architecture and	subsystems in the weather mapping system.	(8)	
Q.6	a. E	xplain distributed object architectu	re in detail.	(8)	
		iscuss in detail about repository me	odel and state the advantages and	(0)	
	d 1	sadvantages of shared repository.		(8)	
Q.7	a. W	Vrite short notes on Component mo	dels.	(8)	
	b. D	iscuss in detail about User interfac	e prototyping.	(8)	
Q.8	a. W	hat are various verification and va	lidation tools on Software Engineering?	(8)	
	b. E	xplain different methods and comp	onents of Software Testing.	(8)	
Q.9	a. D	iscuss about version and release m	anagement.	(8)	
	b. E	xplain in detail about measurement	t process.	(8)	