ROLL NO. _

Code: DC120

Subject: SOFTWARE TESTING

DiplETE – CS (New Scheme)

Time: 3 Hours

JUNE 2018

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.

Q.1 Cl	Choose the correct or the best alternative in the following:				
a.	Which of the following is not a software(A) ISO 9000(C) SEI-CMM	 quality standard or method? (B) Six Sigma (D) COCOMO 			
b.	Which of the following testing is done the (A) alpha(C) gamma	nrough friendly set of customers?(B) beta(D) acceptance			
с.	Correct working of changes in patcheverified via? (A) performance testing (C) verification	 es or configuration of the software (B) regression testing (D) validation 	, is		
d.	What is the value of KLOC for a softwar consisting of exactly 250 lines of code in (A) 2 (C) 4		age		
e.	What is the value of minimum number of (A) 0 (C) 2	of path, for a domain through the routi (B) 1 (D) 3	ne?		
f.	A domain that is linear, complete, consist called as: (A) good (C) nice	stently closed & simply connected car (B) ugly (D) bad	ı be		
g.	Which of the following is not a testing to(A) SMARTS(C) TET(Test Environment Toolkit)	ool? (B) Jmeter (D) RAD			
h.	A file consisting of, list of all files in c each field, without actual data from data (A) database file (C) data matrix	• •	e of		
DC120/ IUNE 2010 1 DipIETE CS (Now Schome)					

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of

i. Relational Algebra	Relational Algebra was first described by?				
(A) Boehm	(B) William Stalling				
(C) E.F. Codd	(D) John Henry Holland				
 j. During software "Cohesion" (A) Low, High (C) Low, Low 	designing developer always try Level of "Coupling" for best outcome. (B) High, Low (D) High, High	level			

Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

Q.2	a.	Explain dichotomies in testing. (6)	
	b.	Explain waterfall model. What are the shortcoming of this approach and how it can be eradicated? (10)	
Q.3	a.	What is cohesion and coupling? Explain their types and relation between them. (10	
	b.	Explain data dictionary. (6)	
Q.4	a.	What is the advantage of data flow testing? How is it achieved? (8)	
	b.	What is a data flow model? Explain its various components. (8)	
Q.5	a.	Explain component based development. (8)	
	b.	Explain domains and their types. (8)	
Q.6	a.	Explain path product, path sum and path expression. (10)	
	b.	What is path reduction in terms of software testing? What are its applications? (6)	
Q.7	a.	What are decision tables and their advantages? (8)	
	b.	How is use of relational algebra (specifically predicates and relational operators) helps in logical testing? (8)	
Q.8	a.	What is white box testing? Explain path-coverage based testing? (10)	
	b.	Explain object oriented testing tools and their advantages? (6)	
Q.9	a.	What are types of requirement gathered for software development? (8)	
	b.	Write short notes on: (4×2) (i) Black box testing (ii) Regression testing	